

DIAGRAMS AND CIRCUIT BOARD ILLUSTRATIONS

Symbols

Graphic symbols and class designation letters are based on ANSI Standard Y32.2-1975.

Logic symbols are based on ANSI/IEEE 91-1984. Logic symbols show the logic function performed and may differ from the manufacturer's data.

Abbreviations are based on ANSI Y1.1-1972.

Other ANSI standards used in diagrams are:

Y14.15-1966 Drafting Practices.

Y14.2-1973 Line Conventions and Lettering.

Y10.5-1975 Letter Symbols for Quantities Used in Electrical Science and Electrical Engineering.

American National Standard Institute
1430 Broadway
New York, New York 10018

Component Values

Electrical components shown on the diagrams are in the following units unless noted otherwise:

Capacitors = Values one or greater are in picofarads (pF). Values less than one are in microfarads (μ F).

Resistors = Ohms (Ω).

Assembly and Circuit Numbering

Each assembly and subassembly are assigned assembly numbers. The assembly number appears on the circuit board outline on the diagram, in the title for the circuit board illustration, and in the corresponding lookup table.

The Replaceable Electrical Parts list prefixes the circuit numbers with the corresponding assembly and subassembly numbers.

EXAMPLE: R2080 on assembly A20 becomes A20R2080.

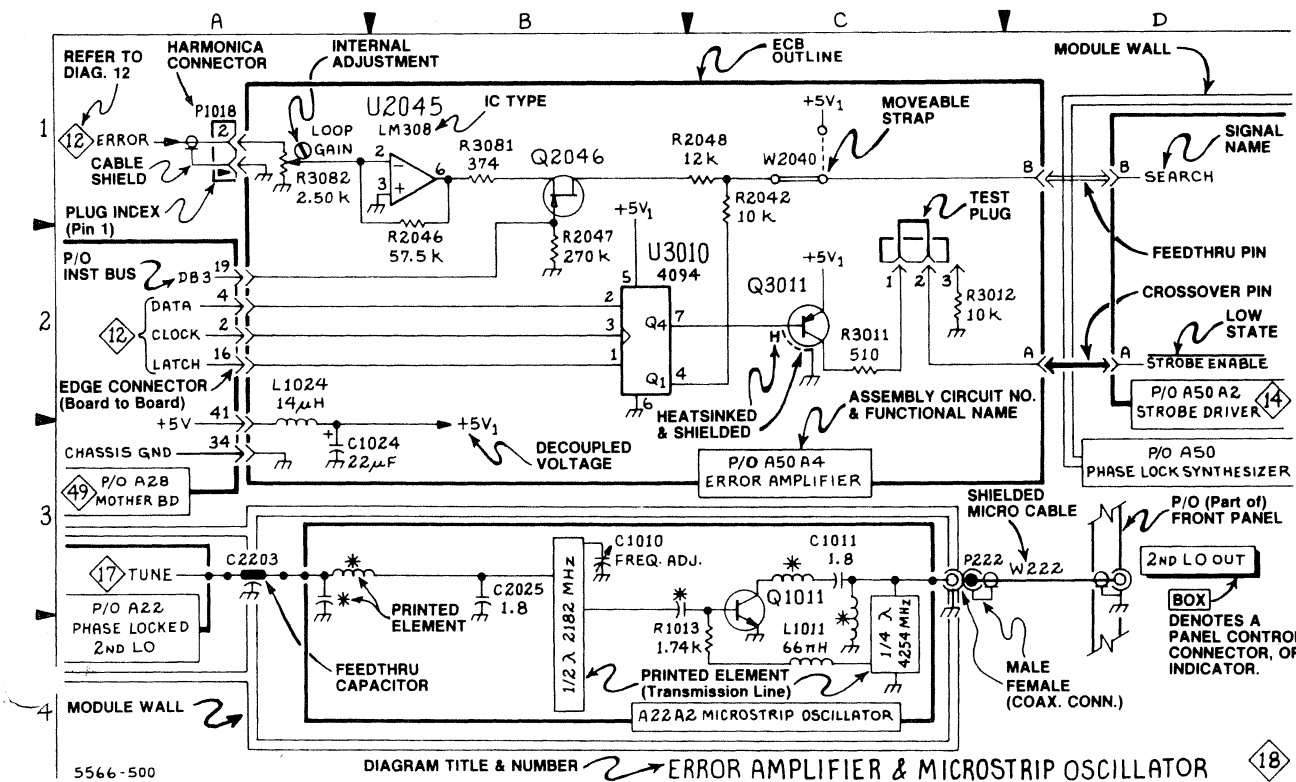
EXAMPLE: U1044 on subassembly A1 of assembly A36 is found in the electrical parts list as A36A1U1044.

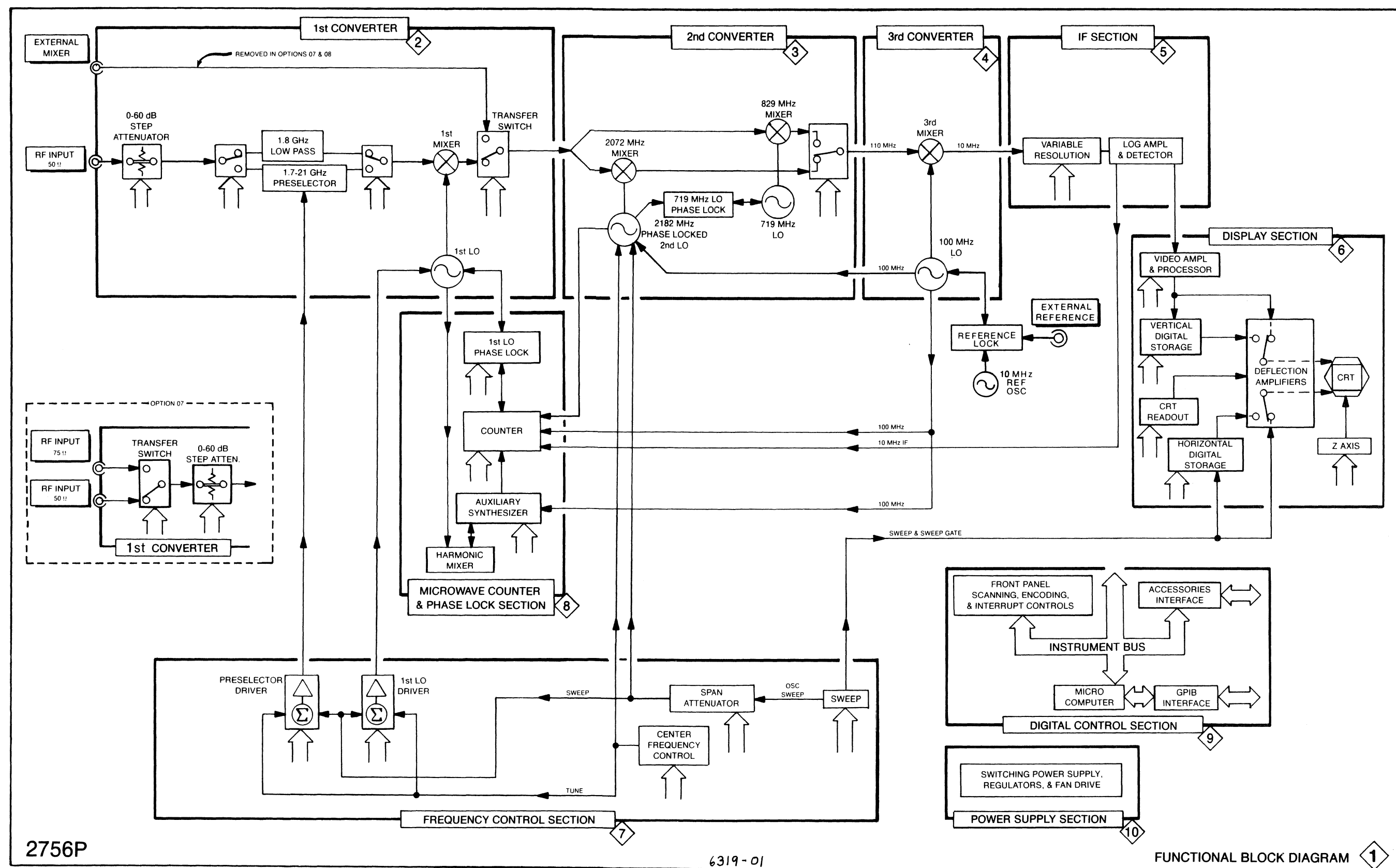
Grid Coordinates

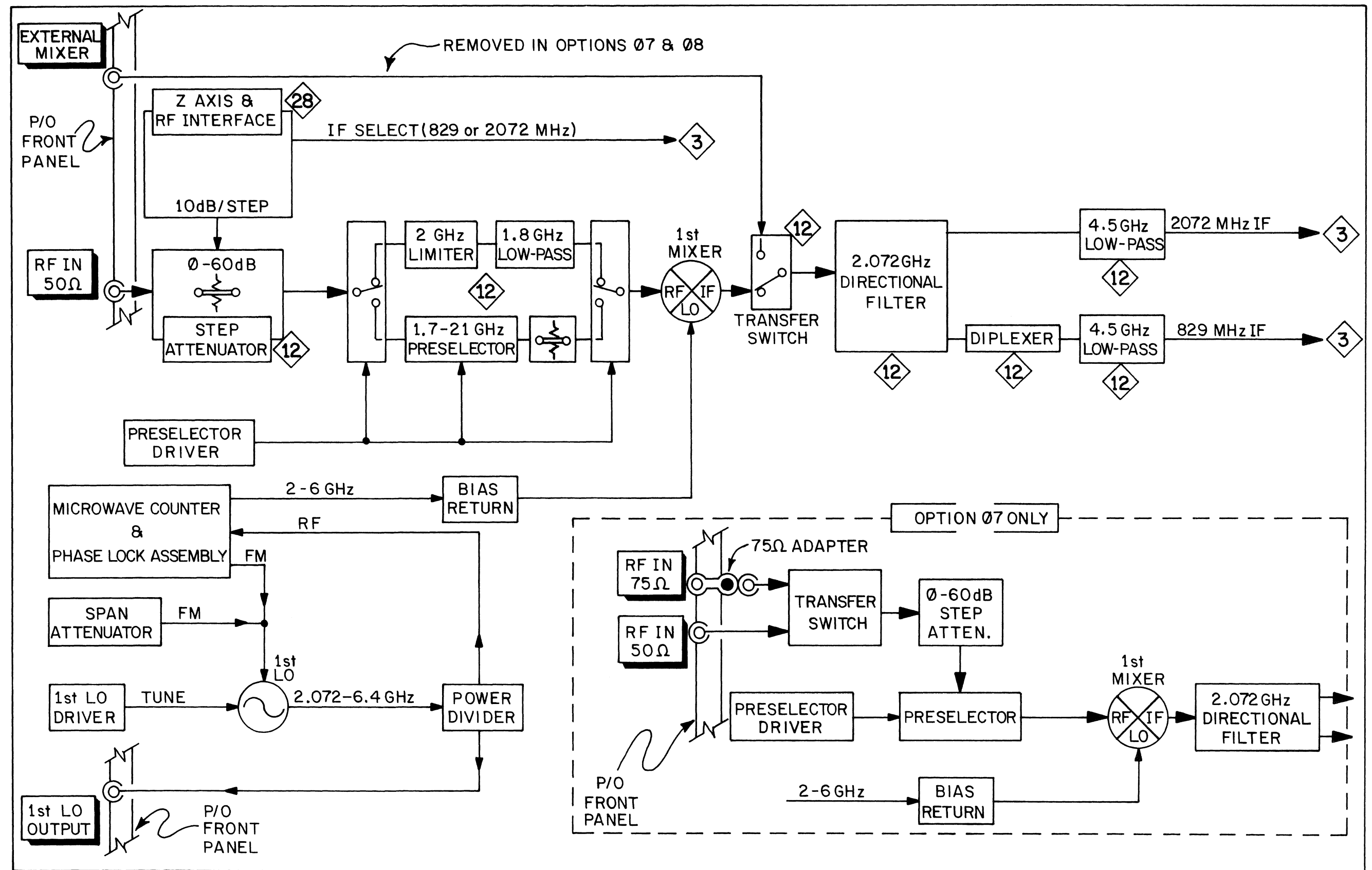
The schematic diagrams and circuit board illustrations are labeled with horizontal and vertical grids. Lookup tables with the grid coordinates are provided as a cross reference to help locate components on the corresponding schematic and circuit board.

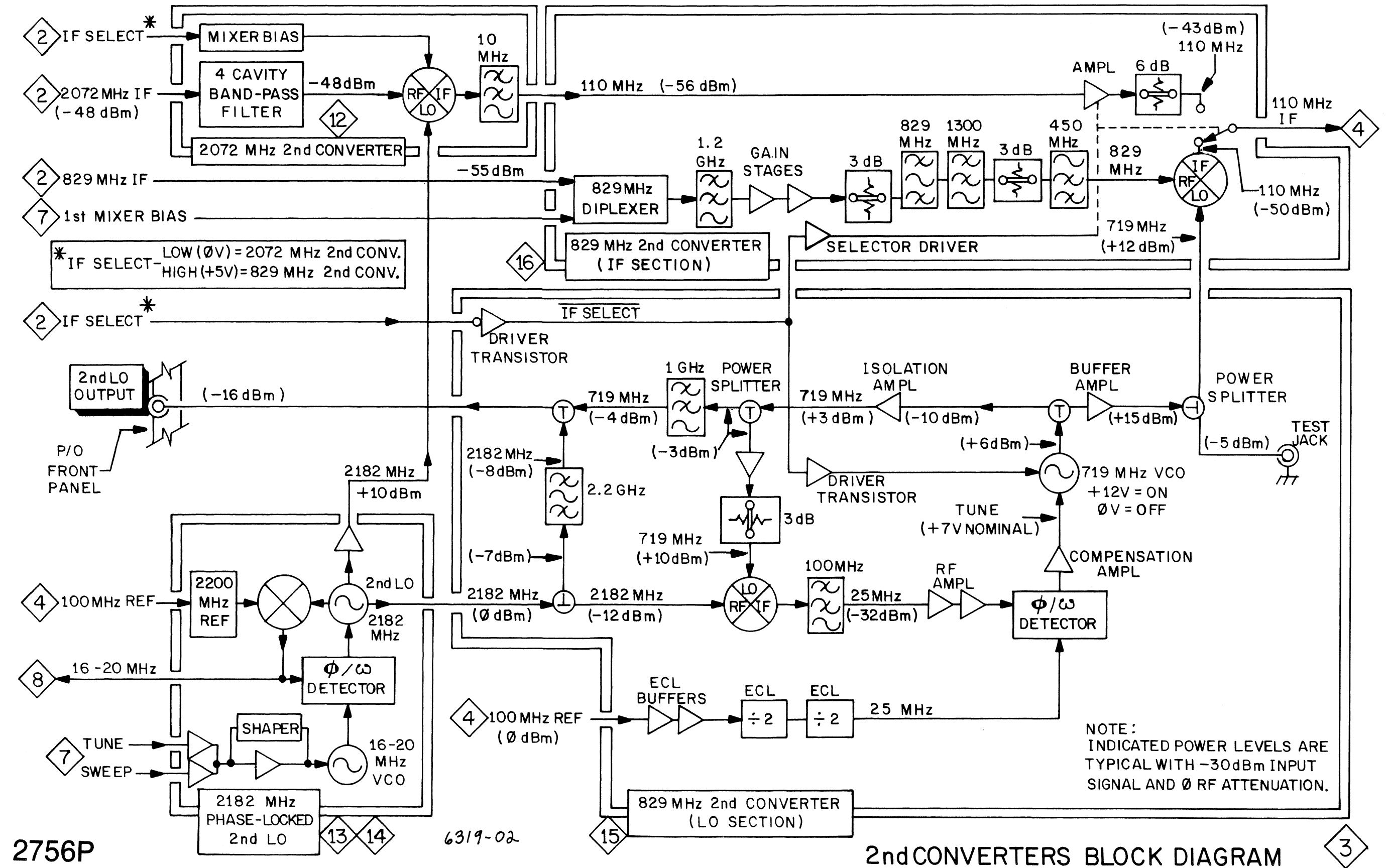
Sample Diagram

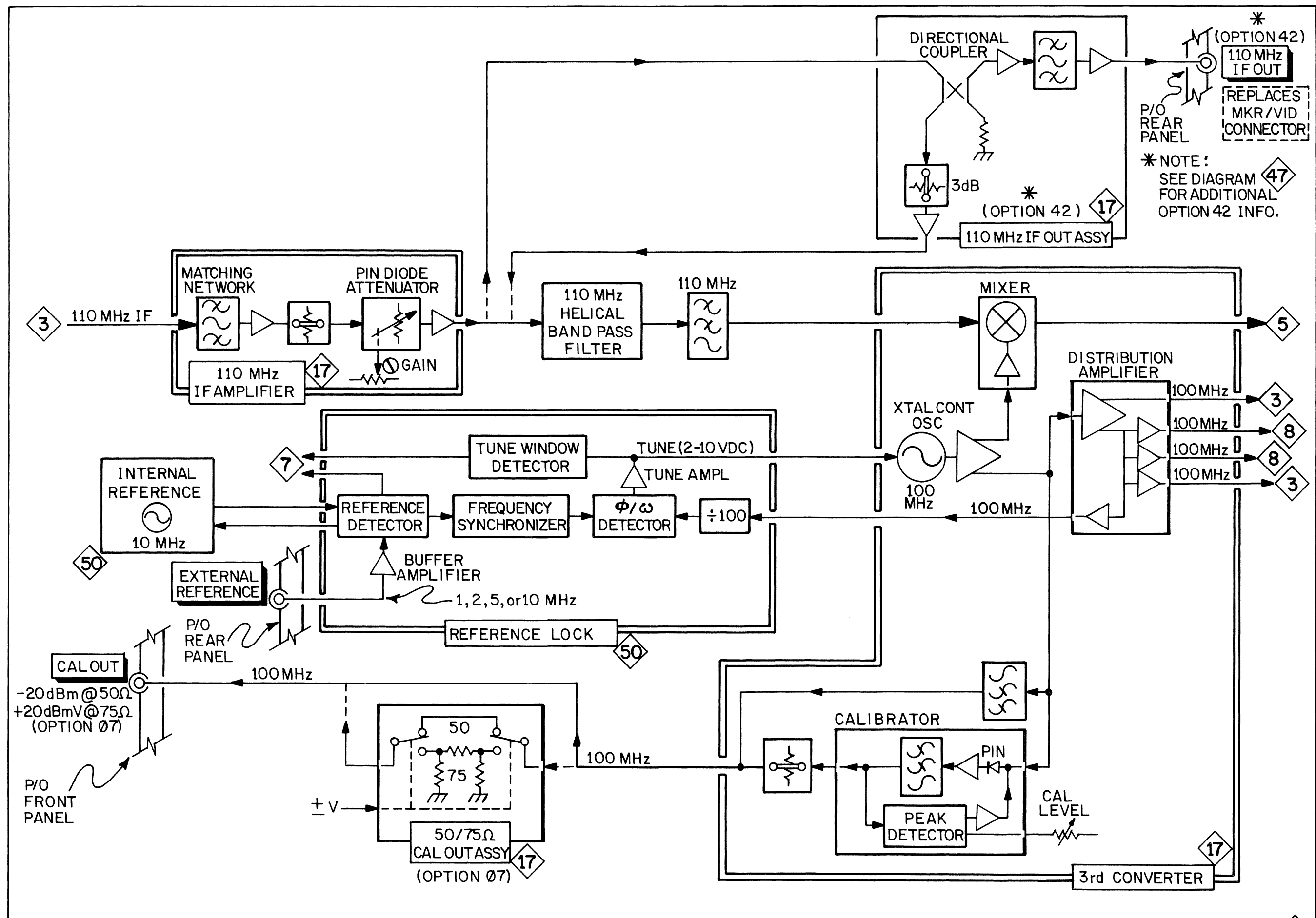
The following sample diagram labels various details found on schematic diagrams.

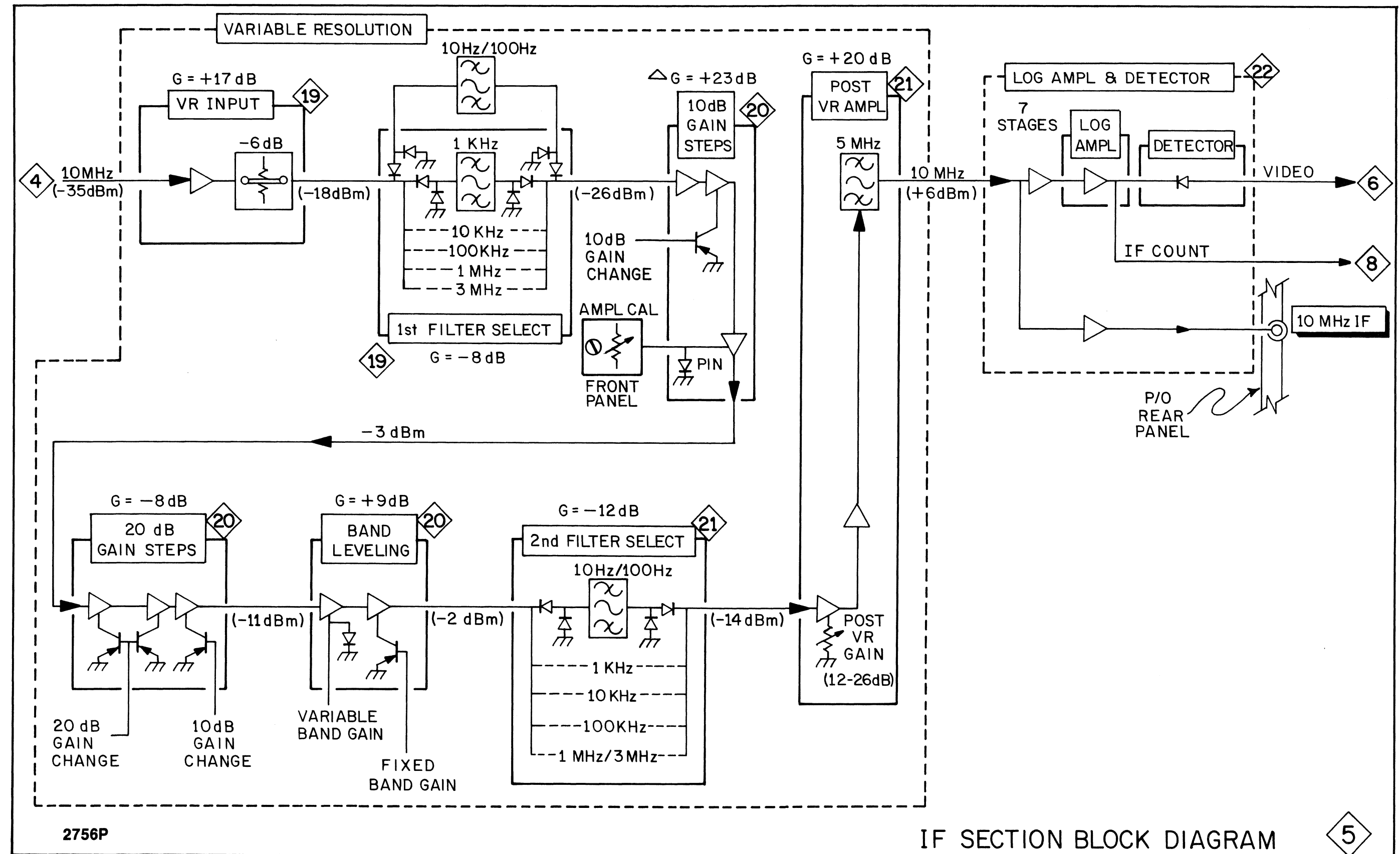


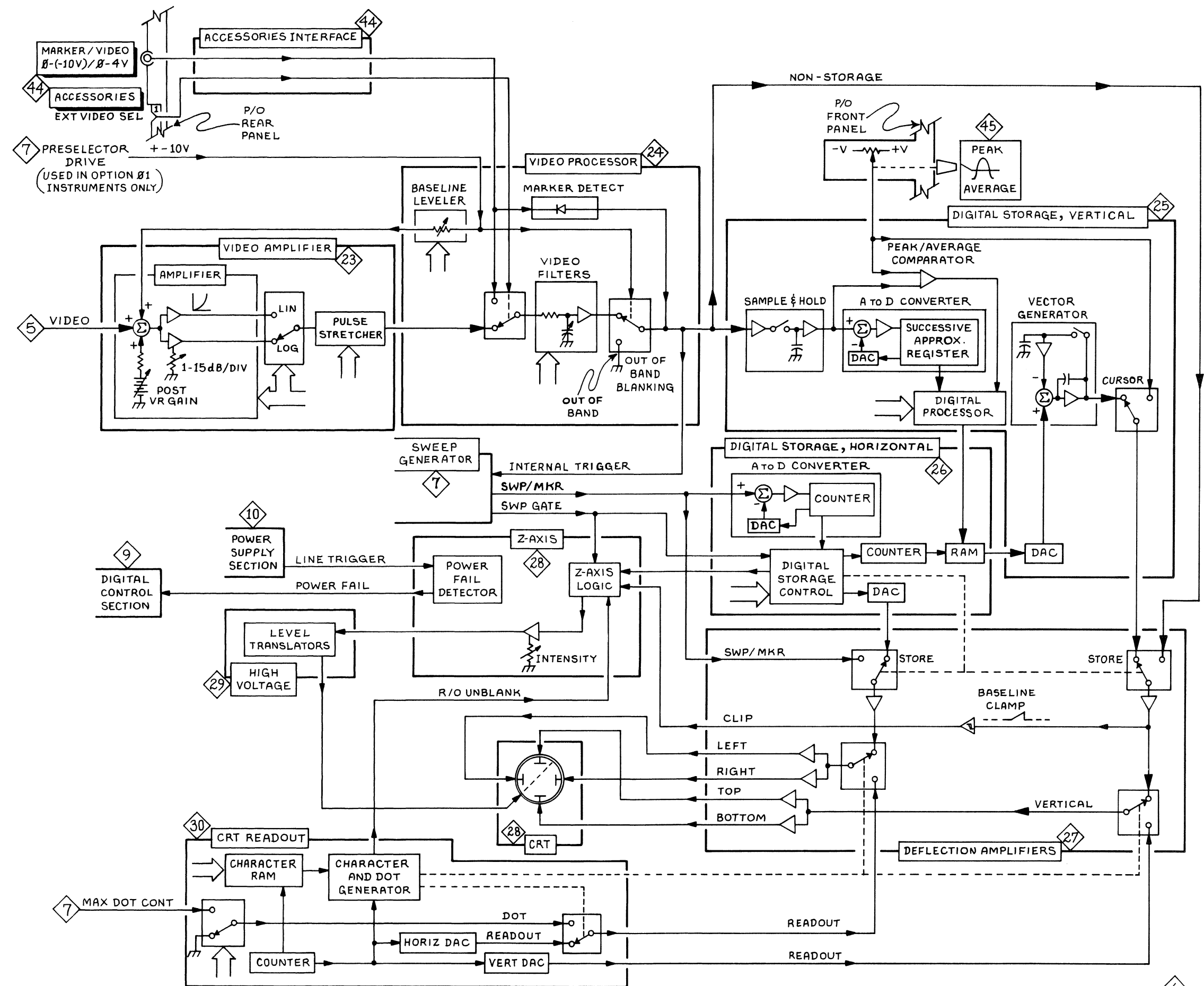








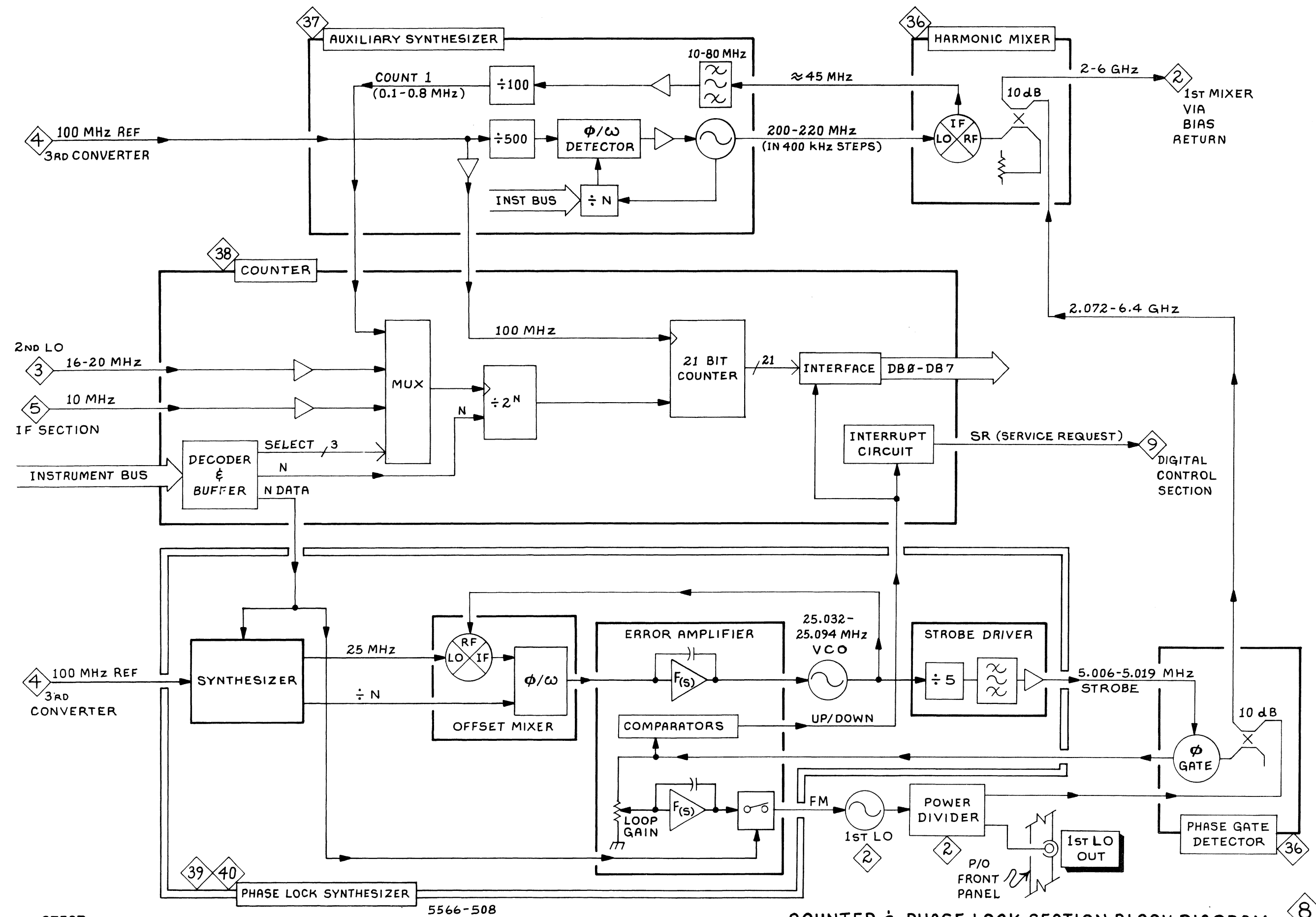




2756P

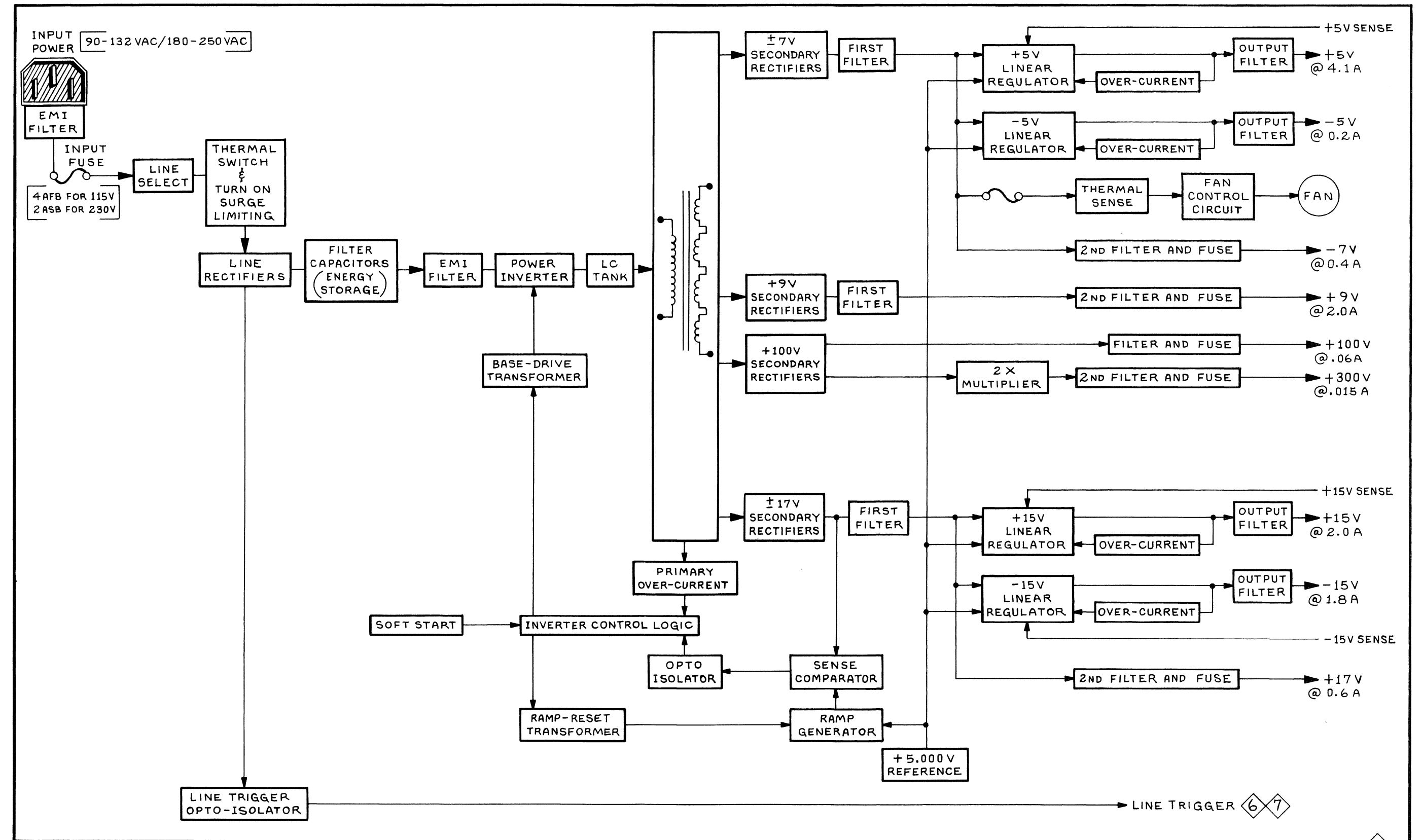
5566-506

DISPLAY CONTROL SECTION BLOCK DIAGRAM 6



2756P

COUNTER & PHASE LOCK SECTION BLOCK DIAGRAM



2756P

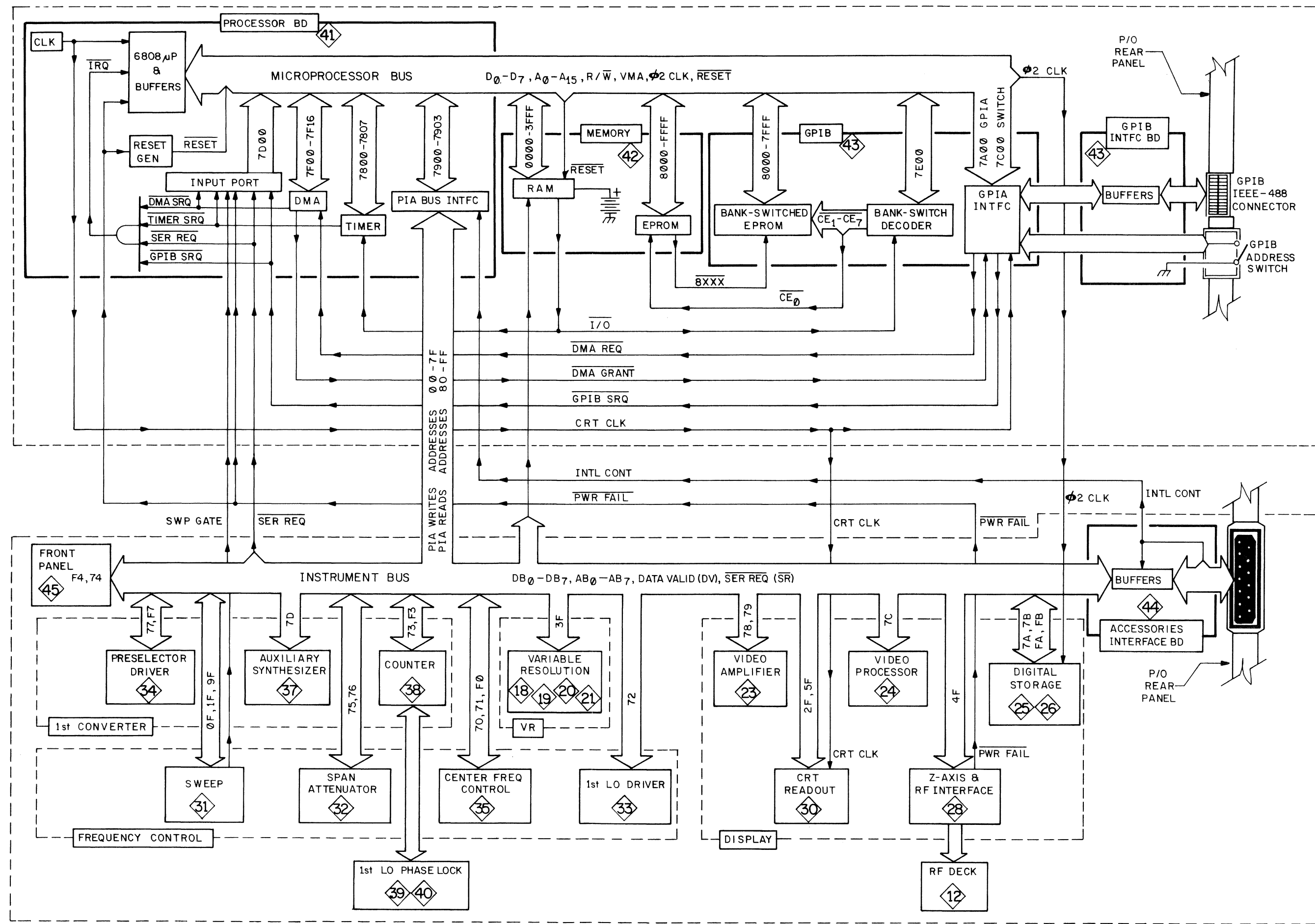
5566-510

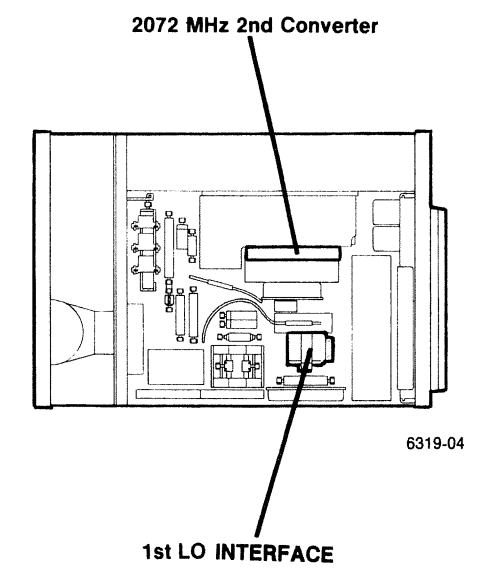
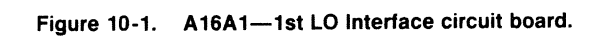
POWER SUPPLY SECTION BLOCK DIAGRAM

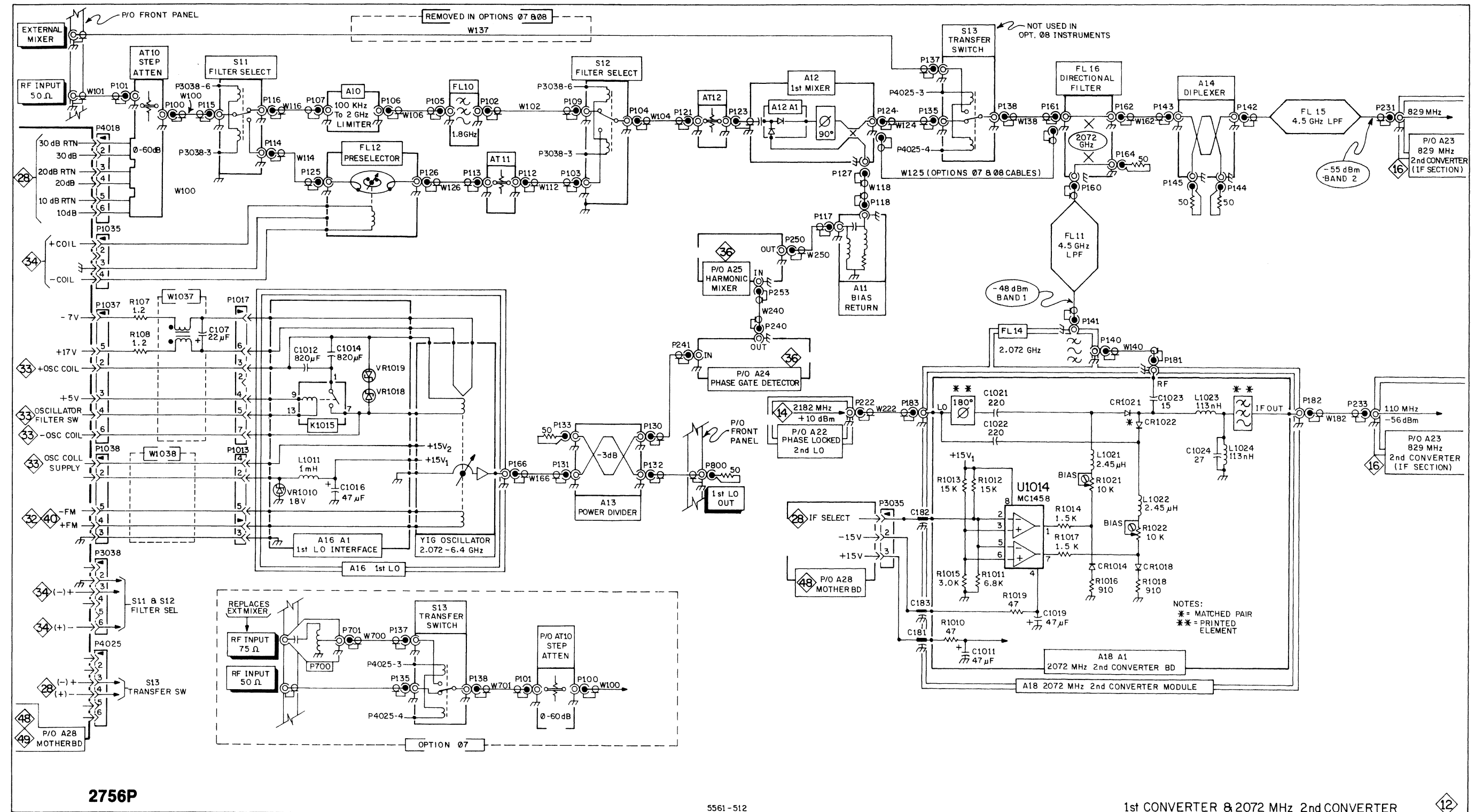
POWER SUPPLY
SECTION BLOCK DIAGRAM

10

10







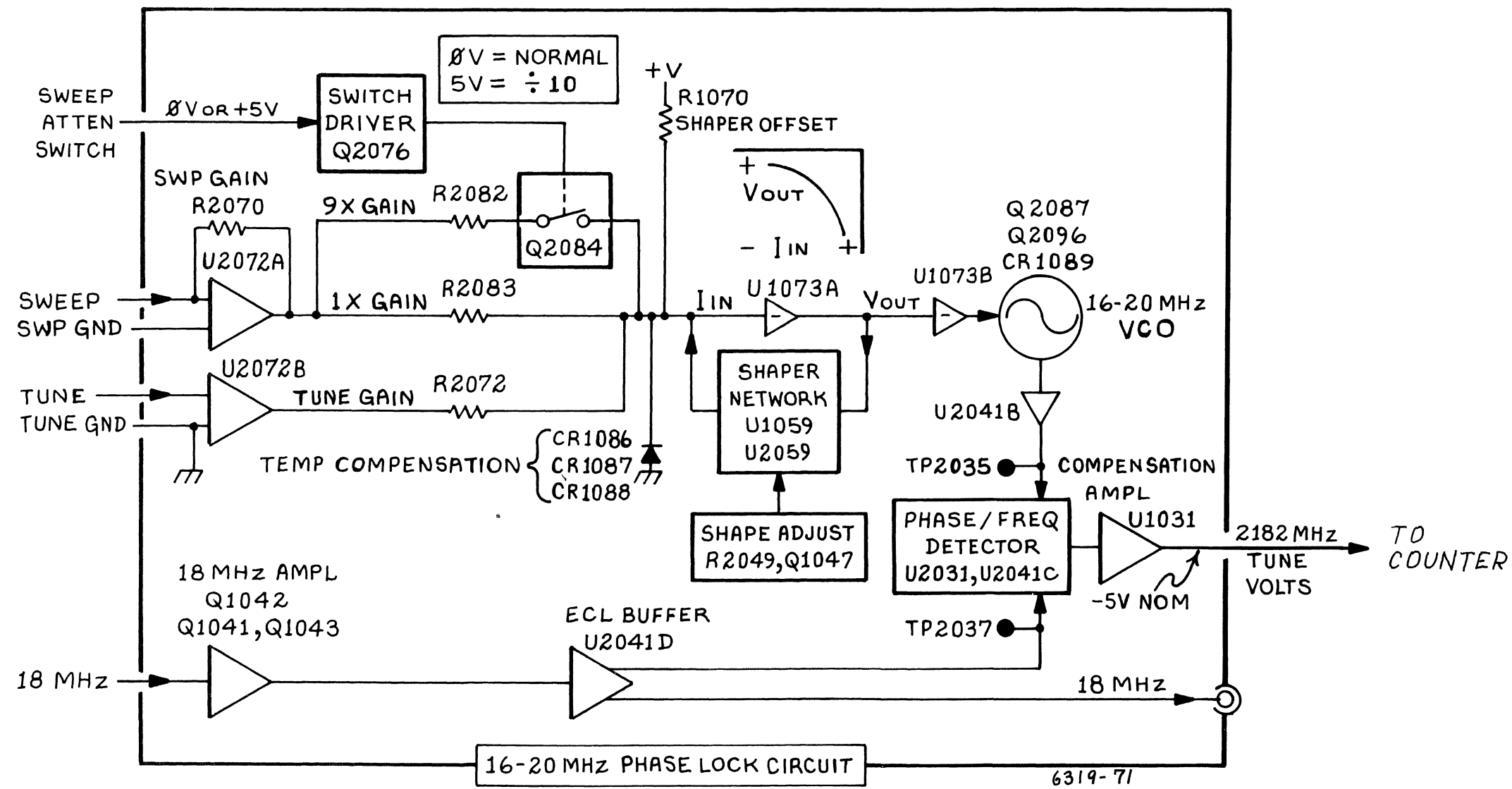
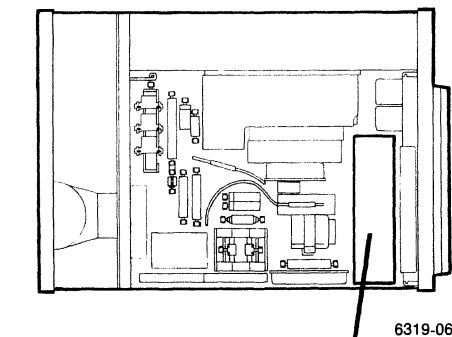


Figure 10-3. A22A1—16-20 MHz Phase Lock circuit board.

Figure 10-3. A22A1—16-20 MHz Phase Lock circuit board.



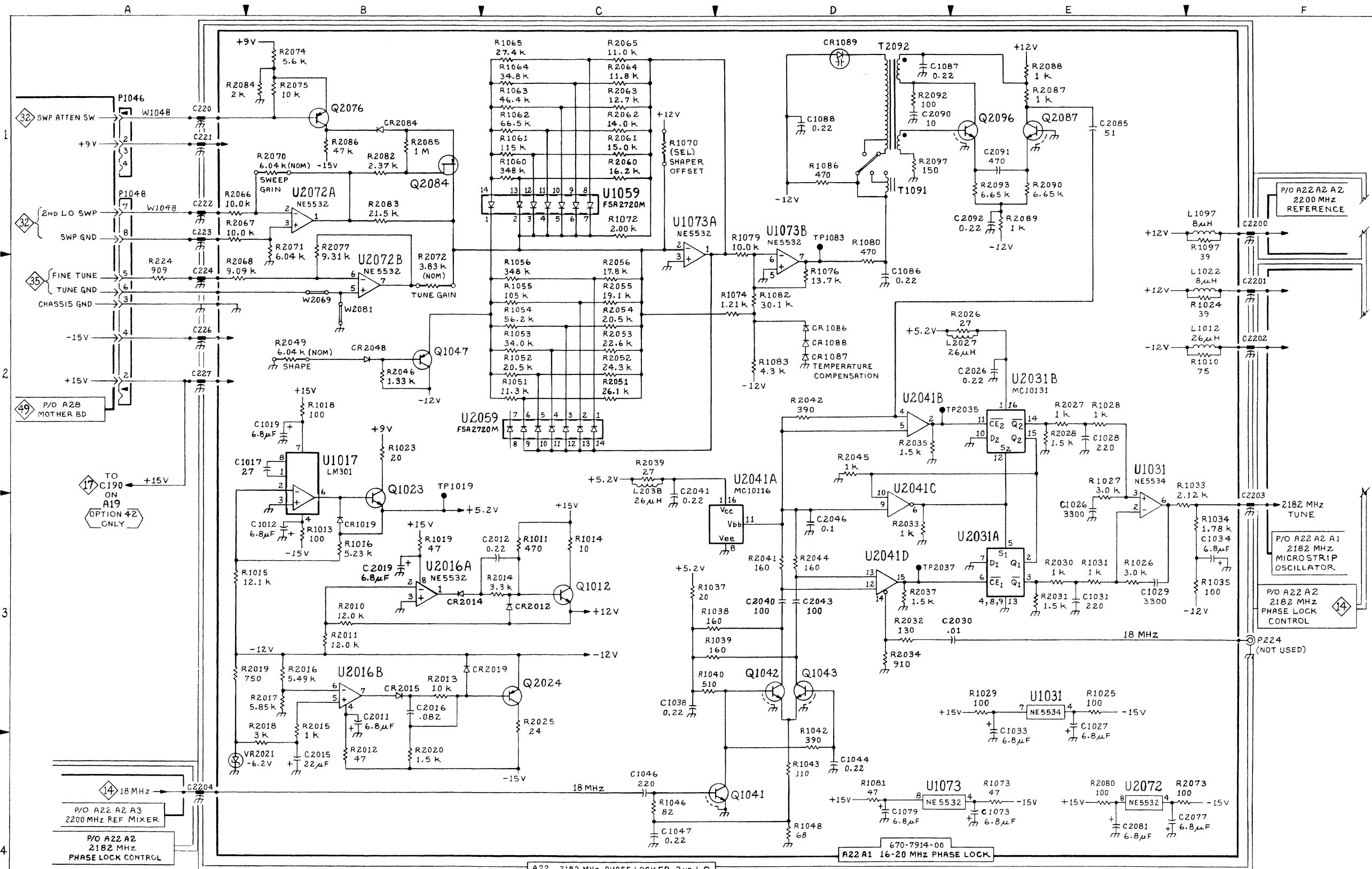
PHASE LOCKED 2nd LO

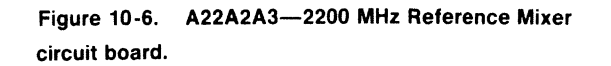
PHASE LOCKED 2nd LO (16-20 MHz PHASE LOCK)

DIAGRAM 13

ASSEMBLY A22A1

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1012	B3	A1	Q1012	C3	A1	R1073	E4	G1	R2070	B1	F2
C1017	A2	A1	Q1023	B2	B1	R1074	D2	G1	R2071	B1	G2
C1019	B2	A1	Q1041	D4	D1	R1076	D2	G1	R2072	B2	G2
C1026	E3	B1	Q1042	D3	D1	R1079	D1	G1	R2073	F4	G1
C1027	E3	B1	Q1043	D3	D1	R1080	D1	H1	R2074	B1	G2
C1028	E2	B1	Q1047	B2	D1	R1081	D4	H1	R2075	B1	G2
C1029	E3	B1	Q2024	C3	B2	R1082	D2	H1	R2077	B1	G2
C1031	E3	C1	Q2076	B1	G2	R1083	D2	H1	R2080	E4	H2
C1033	E3	C1	Q2084	B1	H2	R1086	D1	H1	R2082	B1	H2
C1034	F3	C1	Q2087	E1	H2	R1097	F1	J1	R2083	B1	H2
C1038	C3	C1	Q2096	E1	J2	R2010	B3	A2	R2084	A1	H2
C1044	D4	D1				R2011	B3	A2	R2085	B1	H2
C1046	C4	D1	R1010	F2	A1	R2012	B4	A2	R2086	B1	H2
C1047	C4	D1	R1011	C3	A1	R2013	B3	B2	R2087	E1	H2
C1073	E4	G1	R1013	B3	A1	R2014	C3	A2	R2088	E1	H2
C1079	D4	G1	R1014	C3	A1	R2015	B3	A2	R2089	E1	H2
C1086	D2	H1	R1015	B3	A1	R2016	B3	B2	R2090	E1	H2
C1087	D1	H2	R1016	B3	A1	R2017	B3	B2	R2092	D1	J2
C1088	D1	H1	R1018	B2	A1	R2018	B3	B2	R2093	E1	J2
C2011	B3	A2	R1019	B3	A1	R2019	B3	B2	R2097	D1	J2
C2012	C3	A2	R1023	B2	B1	R2020	B4	B2			
C2015	B4	A2	R1024	E2	B1	R2025	C3	B2	T1091	D1	J1
C2016	B3	B2	R1024	F2	B1	R2026	E2	B2	T2092	D1	J1
C2019	B3	A2	R1025	E3	B1	R2027	E2	B2			
C2026	E2	B2	R1026	E3	B1	R2028	E2	B2	TP1019	B2	A1
C2030	E3	C2	R1027	E2	B1	R2030	E3	C2	TP1083	D1	H1
C2040	D3	D2	R1028	E2	B1	R2031	E3	C2	TP2035	E2	C1
C2041	C2	D2	R1029	E3	C1	R2032	D3	C2	TP2037	D3	C1
C2043	D3	D2	R1031	E3	C1	R2033	D3	C2			
C2046	D3	D2	R1033	F2	C1	R2034	D3	C2	U1017	B2	A1
C2077	F4	G1	R1034	F3	C1	R2035	D2	C2	U1031	E2	C1
C2081	E4	H2	R1035	F3	C1	R2037	D3	C2	U1031	E3	C1
C2085	E1	H2	R1037	C3	C1	R2039	C2	C2	U1059	C1	E1
C2090	D1	H2	R1038	C3	C1	R2041	D3	D2	U1073A	C1	G1
C2091	E1	J2	R1039	C3	C1	R2042	D2	D2	U1073B	D1	G1
C2092	E1	H2	R1040	C3	D1	R2044	D3	D2	U1073	D4	G1
			R1042	D3	D1	R2045	D2	D2	U2016A	B3	A2
CR1019	B3	A1	R1043	D4	D1	R2046	B2	D2	U2016B	B3	A2
CR1086	D2	H1	R1046	C4	D1	R2049	B2	D2	U2031A	E3	C2
CR1087	D2	H1	R1048	D4	D1	R2051	C2	E2	U2031B	E2	C2
CR1088	D2	H1	R1051	C2	E1	R2052	C2	E2	U2041A	D2	D2
CR1089	D1	H1	R1052	C2	E1	R2053	C2	E2	U2041B	D2	D2
CR2012	C3	A1	R1053	C2	E1	R2054	C2	E2	U2041C	D2	D2
CR2014	B3	A2	R1054	C2	E1	R2055	C2	E2	U2041D	D3	D2
CR2015	B3	B2	R1055	C2	E1	R2056	C2	E2	U2059	B2	E2
CR2019	B3	B2	R1056	C2	E1	R2060	C1	F2	U2072A	B1	G2
CR2048	B2	D2	R1060	C1	F1	R2061	C1	F2	U2072B	B2	G2
CR2084	B1	H2	R1061	C1	F1	R2062	C1	F2	U2072	E4	G2
			R1062	C1	F1	R2063	C1	F2			
L1012	F2	A1	R1063	C1	F1	R2064	C1	F2	VR2021	B4	B2
L1022	F2	B1	R1064	C1	F1	R2065	C1	F2			
L1097	F1	J1	R1065	C1	F1	R2066	A1	F2	W2069	B2	F2
L2027	E2	B2	R1070	C1	G1	R2067	A1	F2	W2081	B2	H2
L2038	C2	C2	R1072	C1	G1	R2068	A2	F2			





PHASE LOCKED 2nd LO (LO & 2200 MHz REF/CONV)

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Assembly A22A2A1

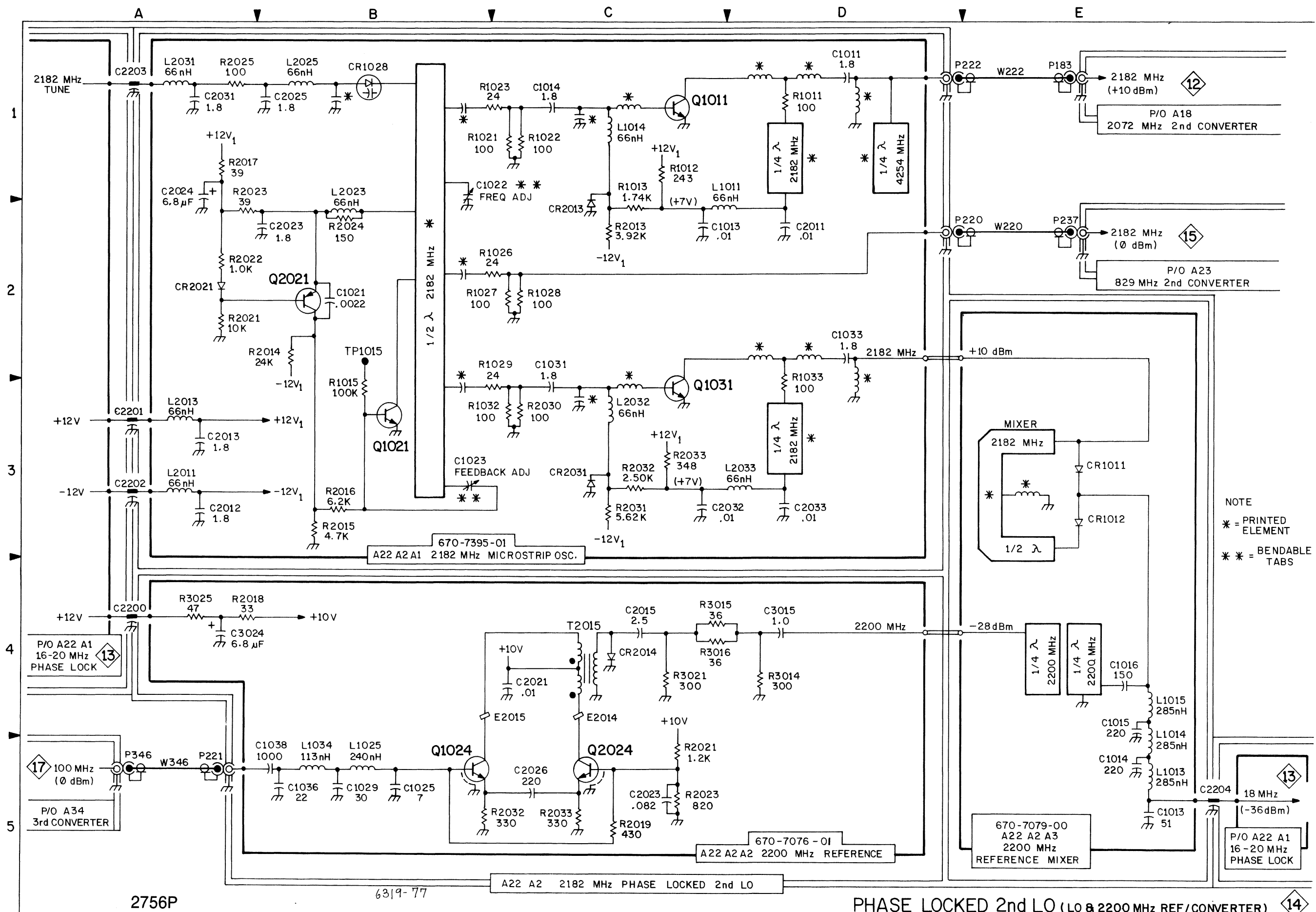
CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1011	D1	A1	L1011	D1	A1	R1027	C2	B1
C1013	D2	A1	L1014	C1	A1	R1028	C2	B1
C1014	C1	A1	L2011	A3	A2	R1029	C2	B1
C1021	B2	B1	L2013	A3	A2	R1032	C3	C1
C1022	C1	A1	L2023	B1	B2	R1032	C3	C1
C1023	B3	B1	L2025	B1	B2	R1033	D2	C1
C1031	C2	C1	L2031	A1	C2	R2013	C2	A2
C1033	D2	C1	L2032	C3	C1	R2014	B2	A2
C2011	D2	A2	L2033	D3	C2	R2015	B3	A2
C2012	A3	A2				R2016	B3	A2
C2013	A3	A2	Q1011	C1	A1	R2017	A1	A2
C2023	B2	B2	Q1021	B3	B2	R2021	A2	B2
C2024	A1	B2	Q1031	C3	C1	R2022	A2	B2
C2025	B1	B2	Q2021	B2	B2	R2023	A1	B2
C2031	A1	B2				R2024	B2	B2
C2032	D3	C1	R1011	D1	A1	R2025	A1	B2
C2033	D3	C2	R1012	C1	A2	R2030	C3	B2
			R1013	C1	A2	R2031	C3	C2
			R1015	B3	A1	R2032	C3	C2
CR1028	B1	B2	R1021	C1	B1	R2033	C3	C2
CR2013	C2	A2	R1022	C1	B1			
CR2021	A2	B2	R1023	C1	B1	TP1015	B2	A1
CR2031	C3	C2	R1026	C2	B1			

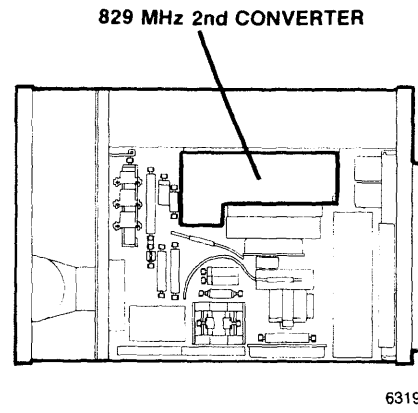
Assembly A22A2A2

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1025	B5	B1	E2014	C4	A2	R2023	C5	B2
C1029	B5	B1	E2015	C4	A2	R2032	C5	B2
C1036	B5	C1				R2033	C5	B2
C1038	B5	C1	L1025	B5	B1	R3014	D4	A3
C2015	C4	A2	L1034	B5	B1	R3015	C4	A3
C2021	C4	B2				R3016	C4	A3
C2023	C5	B2	Q1024	B5	B2	R3021	C4	B3
C2026	C5	B2	Q2024	C5	B3	R3025	A4	B3
C3015	D4	A3						
C3024	A4	B3	R2018	A4	A3	T2015	C4	A2
CR2014	C4	A2	R2019	C5	A2			
			R2021	C5	B2			

Assembly A22A2A3

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1013	E5	A1	CR1011	E3	A1	L1014	E4	A1
C1014	E5	A1	CR1012	E3	A1	L1015	E4	A1
C1015	E4	A1						
C1016	E4	A1	L1013	E5	A1			





829 MHz 2nd CONVERTER (LO SECTION)

15

ASSEMBLY A23A1

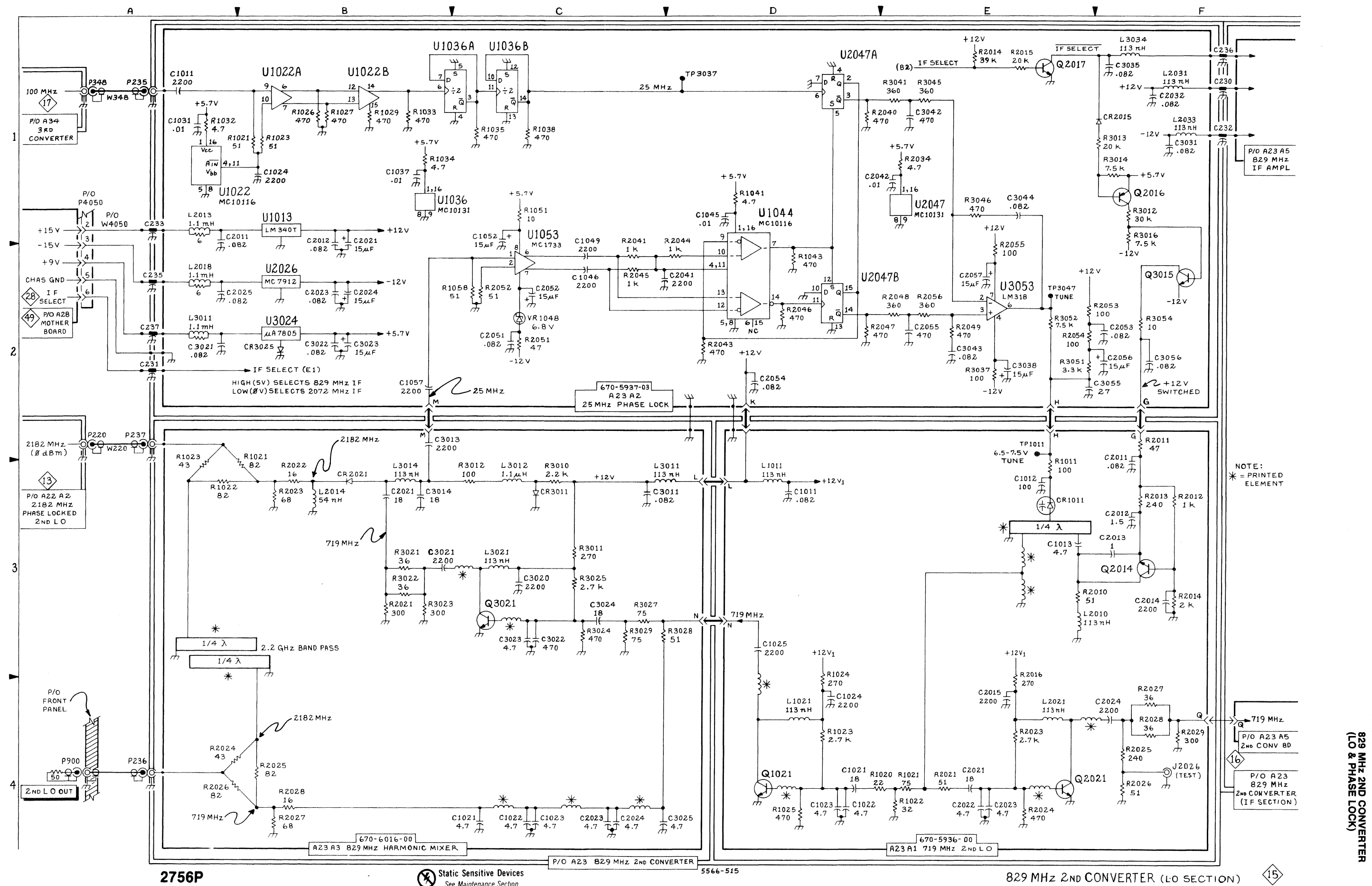
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C1011	D3	A1	C2022	E4	B2	Q2014	F3	A2	R2014	F3	A2
C1012	E3	A1	C2023	E4	B2	Q2021	E4	B2	R2016	E3	A2
C1013	E3	A1	C2024	F4	B2				R2021	E4	B2
C1021	D4	B1				R1011	E3	A2	R2023	E4	B2
C1022	D4	B1	CR1011	E3	A1	R1020	D4	B1	R2024	E4	B2
C1023	D4	B1				R1021	E4	B1	R2025	F4	B2
C1024	D4	B1	J2026	F4	B1	R1022	E4	B1	R2026	F4	B2
C1025	D3	B1				R1023	D4	B1	R2027	F4	B2
C2011	F3	A2	L1011	D3	A1	R1024	D3	B1	R2028	F4	B2
C2012	F3	A2	L1021	D4	B1	R1025	D4	B1	R2029	F4	B2
C2013	F3	A2	L2010	E3	A2	R2010	E3	A2			
C2014	F3	A2	L2021	E4	B2	R2011	F2	A2	TP1011	E2	A1
C2015	E4	A2				R2012	F3	A2			
C2021	E4	B2	Q1021	D4	B1	R2013	F3	A2			

ASSEMBLY A23A2

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1011	A1	A1	C3031	F1	C2	R1034	B1	C1	R3041	E1	D2
C1024	B1	B1	C3035	F1	C3	R1035	C1	C1	R3045	E1	D3
C1031	A1	B1	C3038	E2	C3	R1038	C1	C1	R3046	E1	D3
C1037	B1	C1	C3042	E1	D3	R1041	D1	D1	R3051	E2	E2
C1045	D1	D1	C3043	E2	D3	R1043	D2	D1	R3052	E2	E3
C1046	C2	D1	C3044	E1	D3	R1051	C1	D1	R3054	F2	E3
C1049	C1	D1	C3055	F2	E3	R1058	C2	E1			
C1052	C1	E1	C3056	F2	E3	R2014	E1	A2	TP3037	D1	D3
C1057	B2	E1				R2015	E1	A2	TP3047	E2	E2
Q2011	A1	A2	CR2015	F1	A2	R2034	E1	C2			
C2012	B1	A2				R2040	D1	C2	U1013	B1	A1
C2021	B1	A2	L2013	A1	A2	R2041	C1	D2	U1022A	B1	B1
C2021	E4	A2	L2018	A2	A2	R2043	D2	D2	U1022B	B1	B1
C2023	B2	B2	L2031	F1	C2	R2044	D1	D2	U1022	A1	B1
C2023	E4	B2	L2033	F1	C2	R2045	C2	D2	U1036A	C1	C1
C2024	B2	B2	L3011	A2	A3	R2046	D2	D2	U1036B	C1	C1
C2025	A2	B2	L3034	F1	C3	R2047	D2	E3	U1036	B1	C1
C2032	F1	C2				R2048	E2	D2	U1044	D1	D1
C2041	D2	D2	Q2016	F1	A2	R2049	E2	D2	U1053	C1	E1
C2042	D1	D2	Q2017	E1	A2	R2051	C2	E2	U2026	B2	B2
C2051	C2	E2	Q3015	F2	A3	R2052	C2	E2	U2047A	D1	D2
C2052	C2	E2				R2053	F2	E2	U2047B	D2	D2
C2053	F2	E2	R1021	A1	A1	R2054	E2	E2	U2047	E1	D2
C2054	D2	E2	R1021	E4	A1	R2055	E1	E2	U3024	B2	B3
C2055	E2	E2	R1023	B1	B1	R2056	E2	E2	U3053	E2	E3
C2056	F2	E2	R1026	B1	B1	R3012	F1	A3			
C2057	E2	E2	R1027	B1	B1	R3013	F1	A3	VR1048	C2	D1
C3021	A2	A3	R1029	B1	B1	R3014	F1	A3			
C3022	B2	B2	R1032	A1	C1	R3016	F1	A3			
C3023	B2	B2	R1033	B1	C1	R3037	E2	C3			

ASSEMBLY A23A3

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1021	C4	B1	C3024	C3	B3	R1021	B2	B1	R3012	C3	A3
C1022	C4	B1	C3025	D4	B2	R1022	A3	B1	R3021	B3	B2
C1023	C4	B1				R1023	A2	B1	R3022	B3	B2
C2021	B3	B2	CR2021	B3	B2	R2021	B3	B2	R3023	B3	B2
C2023	C4	B2	CR3011	C3	A3	R2022	B3	B2	R3024	C3	B3
C2024	C4	B2				R2023	B3	B2	R3025	C3	B3
C3011	D3	A3	L2014	B3	A1	R2024	A4	B2	R3027	C3	B3
C3013	B2	A3	L3011	D3	A3	R2025	B4	B2	R3028	D3	B3
C3014	B3	A3	L3012	C3	A3	R2026	A4	B2	R3029	C3	B3
C3020	C3	B3	L3014	B3	A3	R2027	B4	B2			
C3021	B3	B3	L3021	C3	B3	R2028	B4	B2			
C3022	C3	B3				R3010	C3	A3			
C3023	C3	B3	Q3021	C3	B3	R3011	C3	A3			

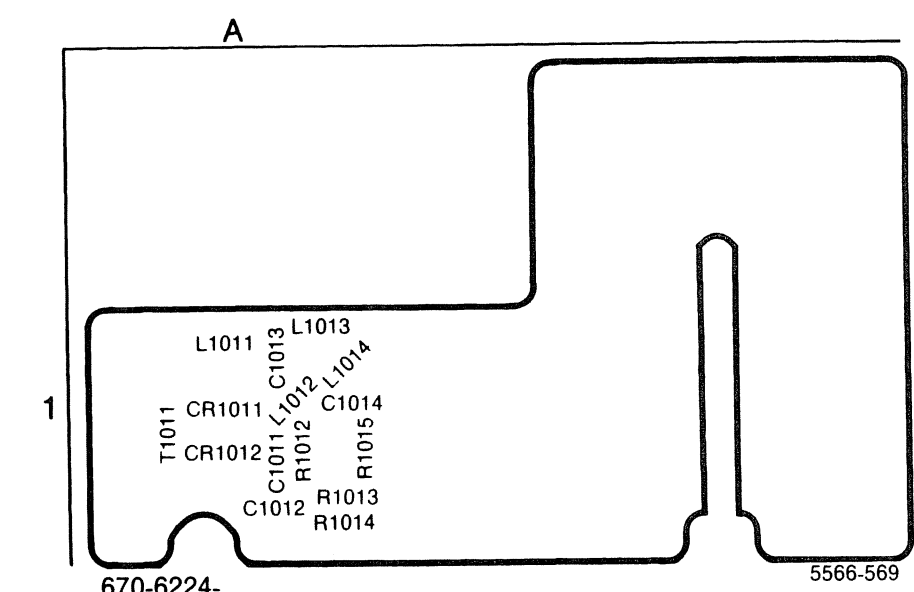


829 MHz 2ND CONVERTER (LO SECTION)

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829 MHz 2ND CONVERTER
(LO & PHASE LOCK)

15



829 MHz 2nd CONVERTER (IF SECTION)

16

ASSEMBLY A23A4

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
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C1011	B3	A1	C1019	B3	A1	R1012	B2	A1
C1012	A3	A1	C1021	A3	A1	R1013	A3	A1
C1013	B2	A1				R1014	A2	A1
C1014	A3	A1	L1010	A3	A1	R1015	A2	A1
C1015	B3	A1	L1011	A3	A1			
C1016	B3	A1	L1012	B3	A1			
C1017	B3	A1	L1015	A3	A1			

ASSEMBLY A23A5

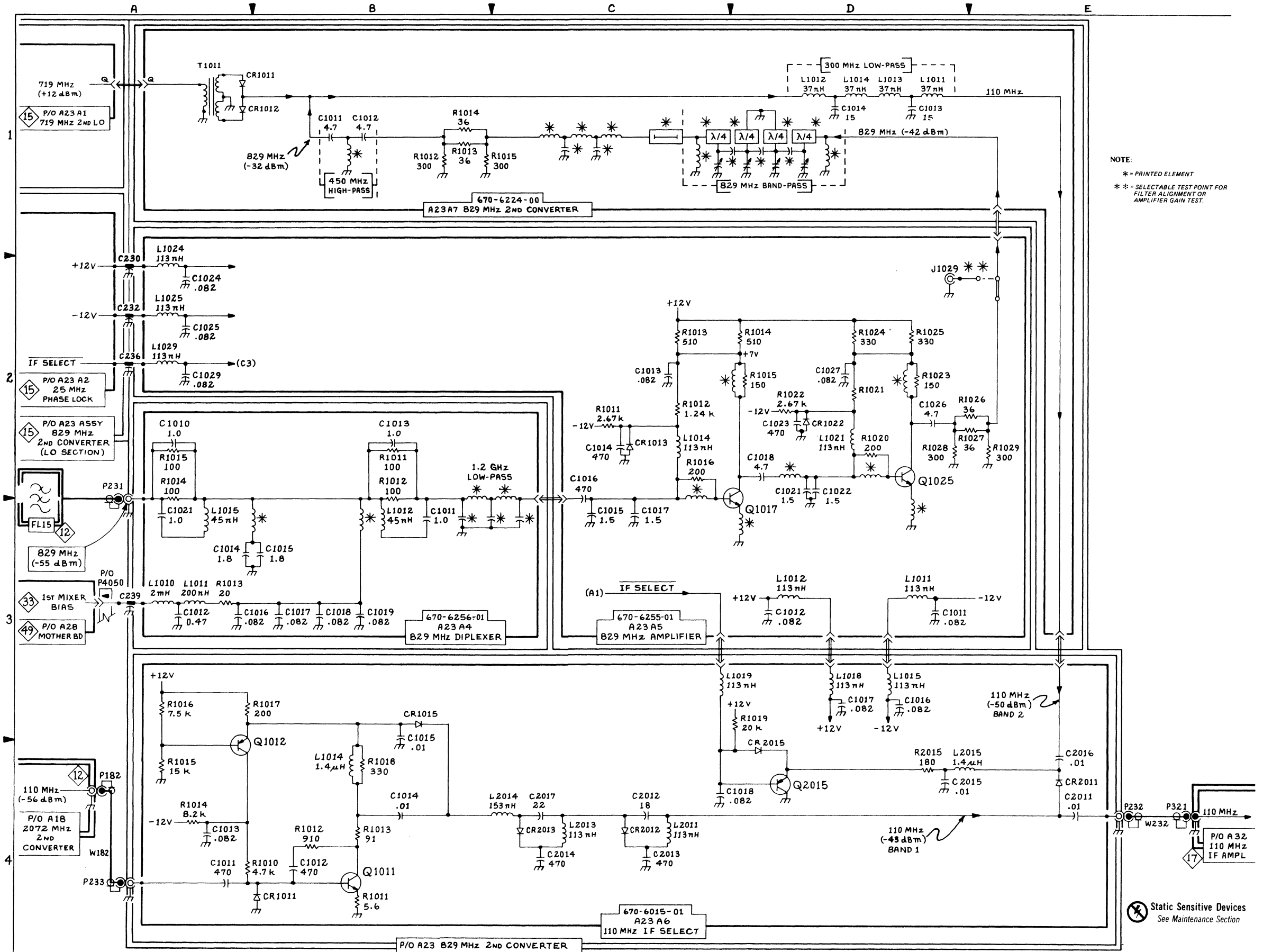
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C1012	D3	A1	CR1022	D2	B1	R1013	C2	A1
C1013	C2	A1				R1014	D2	A1
C1014	C2	A1	J1029	D2	B1	R1015	D2	A1
C1015	C3	A1				R1016	C2	A1
C1016	C2	A1	L1011	D3	A1	R1020	D2	B1
C1017	C3	A1	L1012	D3	A1	R1021	D2	B1
C1018	D2	A1	L1014	C2	A1	R1022	D2	B1
C1021	D2	A1	L1021	D2	A1	R1023	D2	B1
C1022	D2	B1	L1024	A1	B1	R1024	D2	B1
C1023	D2	B1	L1025	A2	B1	R1025	D2	B1
C1024	A2	B1	L1029	A2	B1	R1026	D2	B1
C1025	A2	B1				R1027	D2	B1
C1026	D2	B1	Q1017	D3	A1	R1028	D2	B1
C1027	D2	B1	Q1025	D2	B1	R1029	D2	B1
C1029	A2	B1	R1011	C2	A1			

ASSEMBLY A23A6

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1011	A4	A1	CR1011	B4	A1	Q1011	B4	A1
C1012	B4	A1	CR1015	B3	A1	Q1012	B4	A1
C1013	A4	A1	CR2011	E4	A2	Q2015	D4	A2
C1014	B4	A1	CR2012	C4	A2			
C1015	B3	A1	CR2013	C4	A2	R1010	B4	A1
C1016	D3	A1	CR2015	D4	A2	R1011	B4	A1
C1017	D3	A1				R1012	B4	A1
C1018	D4	A1	L1014	B4	A1	R1013	B4	A1
C2011	E4	A2	L1015	D3	A1	R1014	A4	A1
C2012	C4	A2	L1018	D3	A1	R1015	A4	A1
C2013	C4	A2	L1019	D3	A1	R1016	A3	A1
C2014	C4	A2	L2011	C4	A2	R1017	B3	A1
C2015	D4	A2	L2013	C4	A2	R1018	B4	A1
C2016	E4	A2	L2014	C4	A2	R1019	D3	A1
C2017	C4	A2	L2015	D4	A2	R2015	D4	A2

ASSEMBLY A23A7

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1011	B1	A1	L1011	D1	A1	R1014	B1	A1
C1012	B1	A1	L1012	D1	A1	R1015	C1	A1
C1013	D1	A1	L1013	D1	A1			
C1014	D1	A1	L1014	D1	A1	T1011	A1	A1
CR1011	B1	A1	R1012	B1	A1			
CR1012	B1	A1	R1013	B1	A1			



NOTE:
* - PRINTED ELEMENT
* - SELECTABLE TEST POINT FOR
FILTER ALIGNMENT OR
AMPLIFIER GAIN TEST.

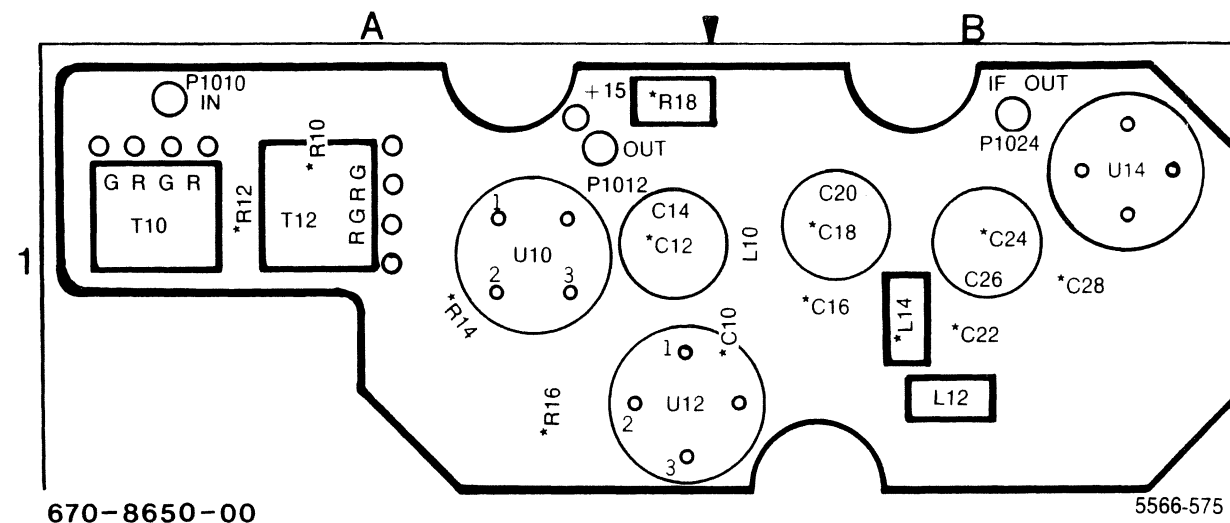
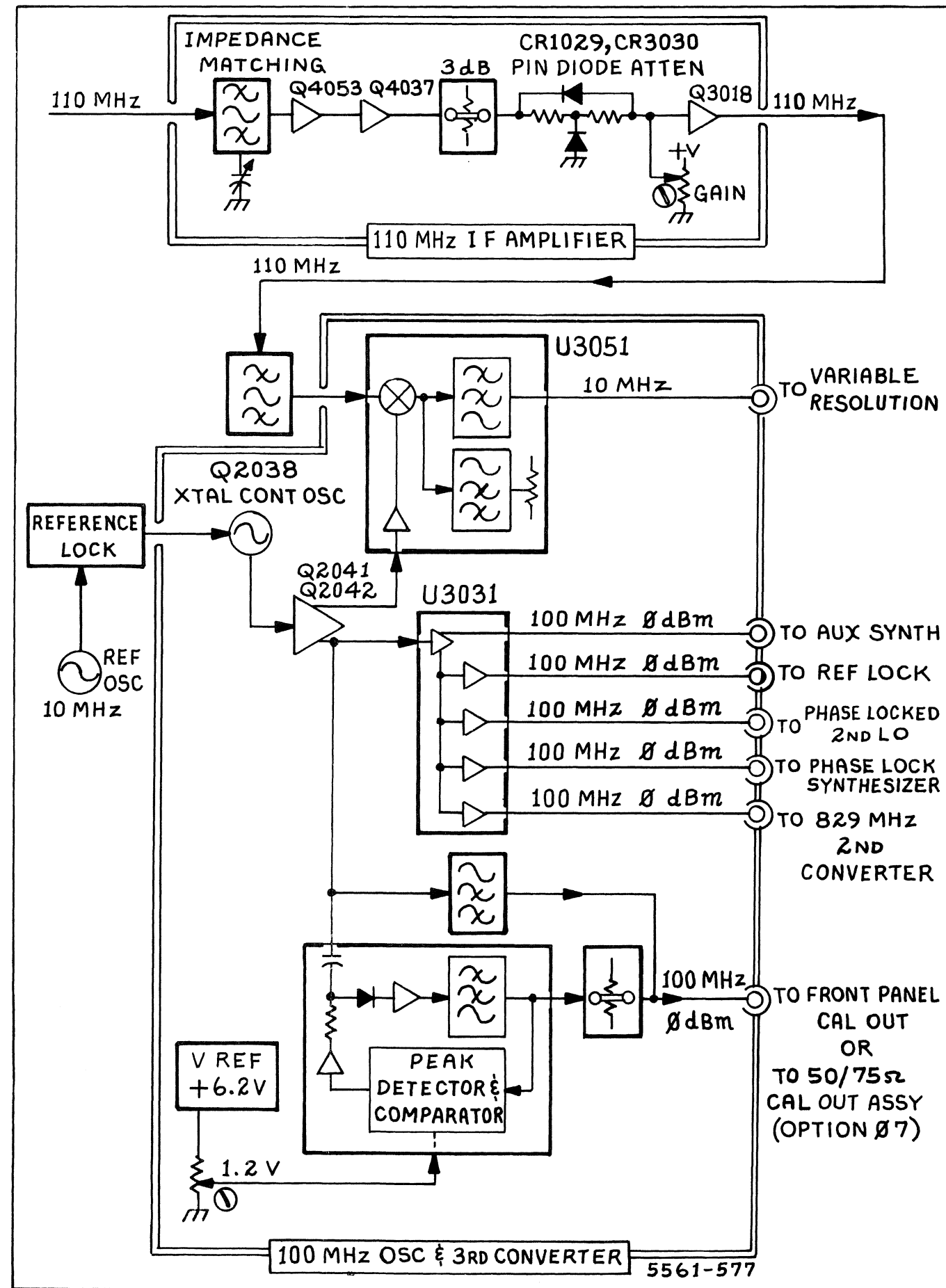


Figure 10-17. A19A1—110 MHz IF Out circuit board. (Option 42 only)

* MOUNTED ON REAR OF BOARD

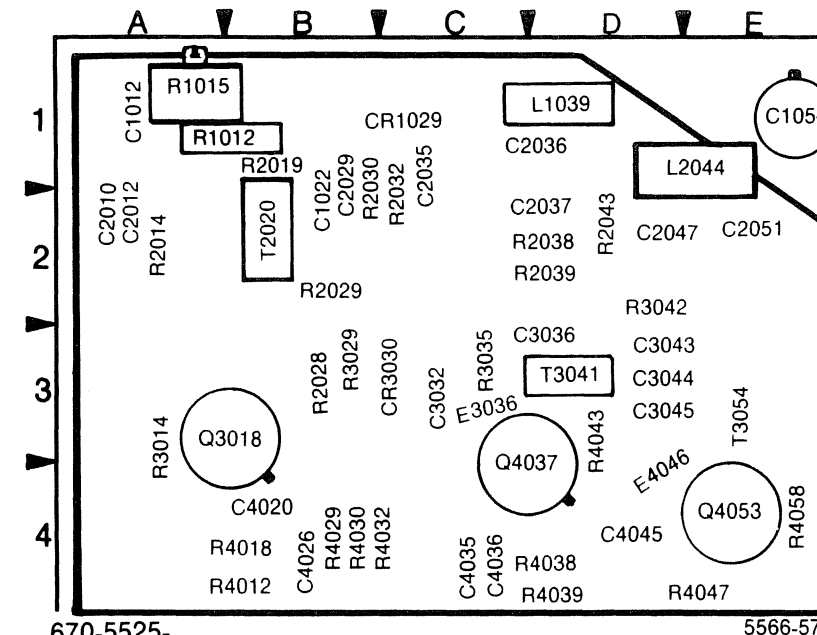
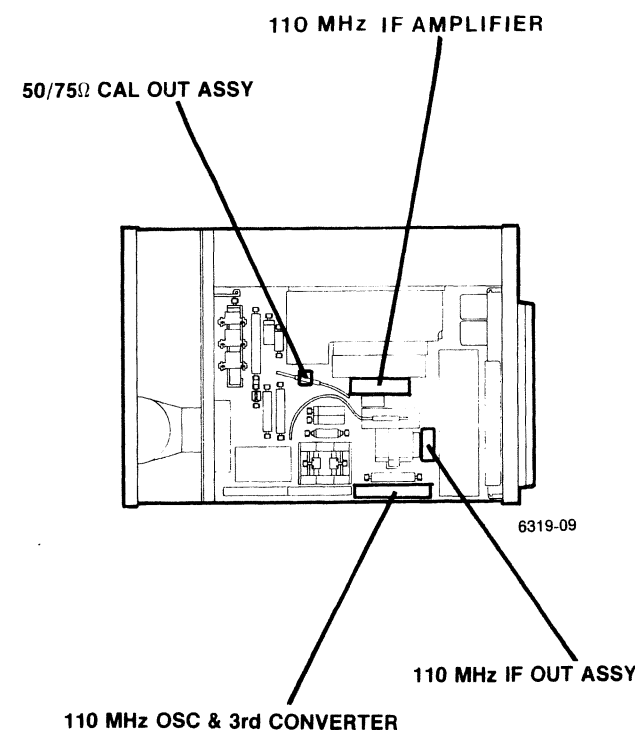


Figure 10-14. A32A1—110 MHz IF Amplifier circuit board.

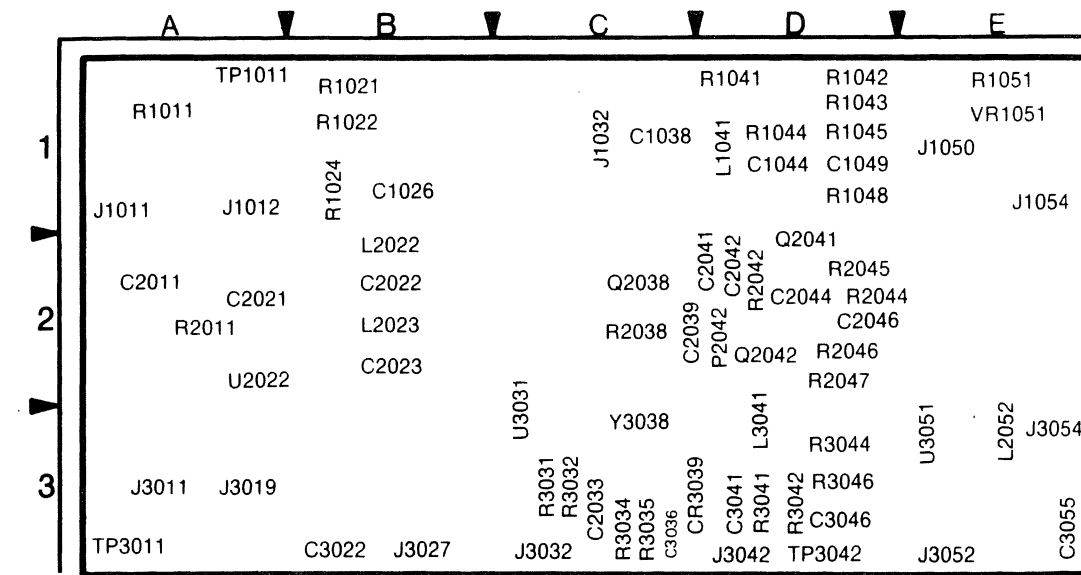


Figure 10-15. A34A1—100 MHz Osc. & 3rd Converter circuit board.

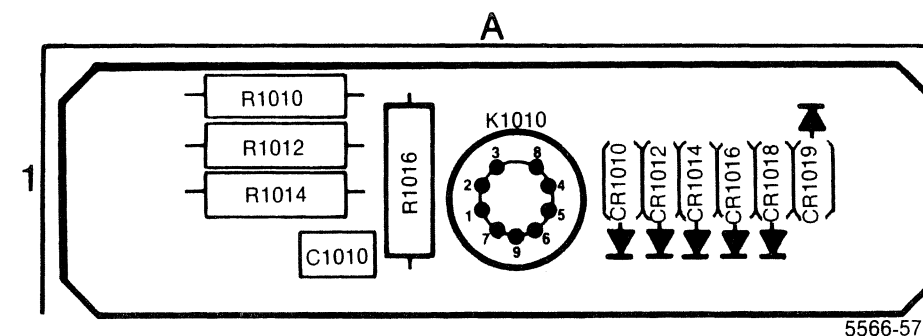


Figure 10-16. A34A3A1—50/75 Ω Cal Out circuit board. (Option 07 only)

110 MHz IF & 3rd CONVERTER

ASSEMBLY A32A1

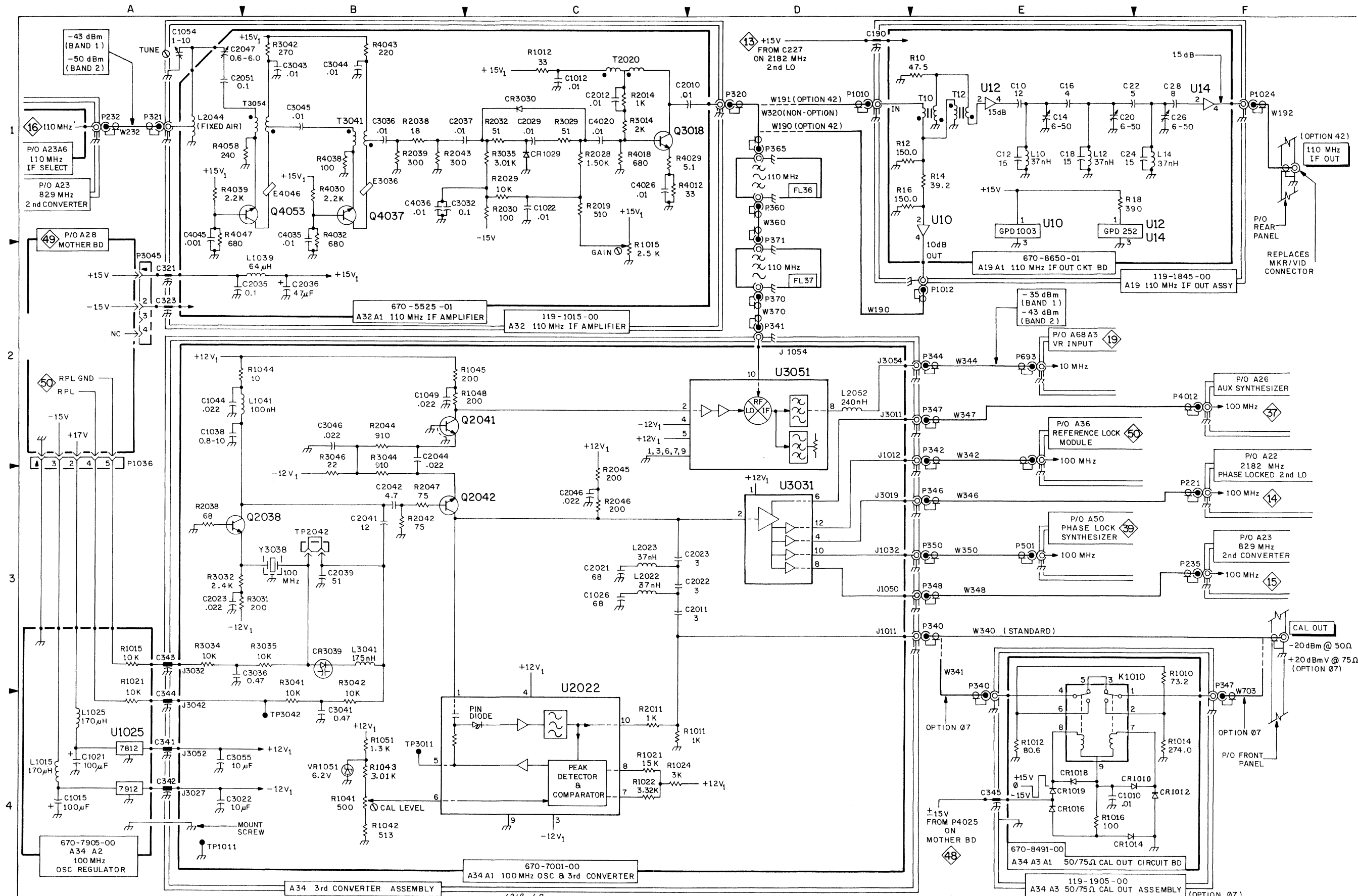
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C1012	C1	A1	C4020	C1	B4	Q4037	B1	C4	R3035	C1	C3
C1022	C1	B2	C4026	C1	B4	Q4053	B1	E4	R3042	B1	D2
C1054	A1	E1	C4035	B1	C4				R4012	C1	B4
C2010	C1	A2	C4036	B1	C4	R1012	C1	A1	R4018	C1	B4
C2012	C1	A2	C4045	A1	D4	R1015	C1	A1	R4029	C1	B4
C2029	C1	B2				R2014	C1	A2	R4030	B1	B4
C2035	B2	C1	CR1029	C1	C1	R2019	C1	B1	R4032	B1	B4
C2036	B2	D1	CR3030	C1	C3	R2028	C1	B3	R4038	B1	D4
C2037	B1	D2				R2029	C1	B2	R4039	A1	D4
C2047	A1	D2	E3036	B1	C4	R2030	C1	B2	R4043	B1	D3
C2051	A1	E2	E4046	B1	D4	R2032	C1	C1	R4047	A1	D4
C3032	B1	C3				R2038	B1	D2	R4058	A1	E4
C3036	B1	D3	L1039	B2	D1	R2039	B1	D2			
C3043	B1	D3	L2044	A1	E1	R2043	B1	D2	T2020	C1	B2
C3044	B1	D3				R3014	C1	A3	T3041	B1	D3
C3045	B1	D3	Q3018	C1	A3	R3029	C1	B3	T3054	B1	E3

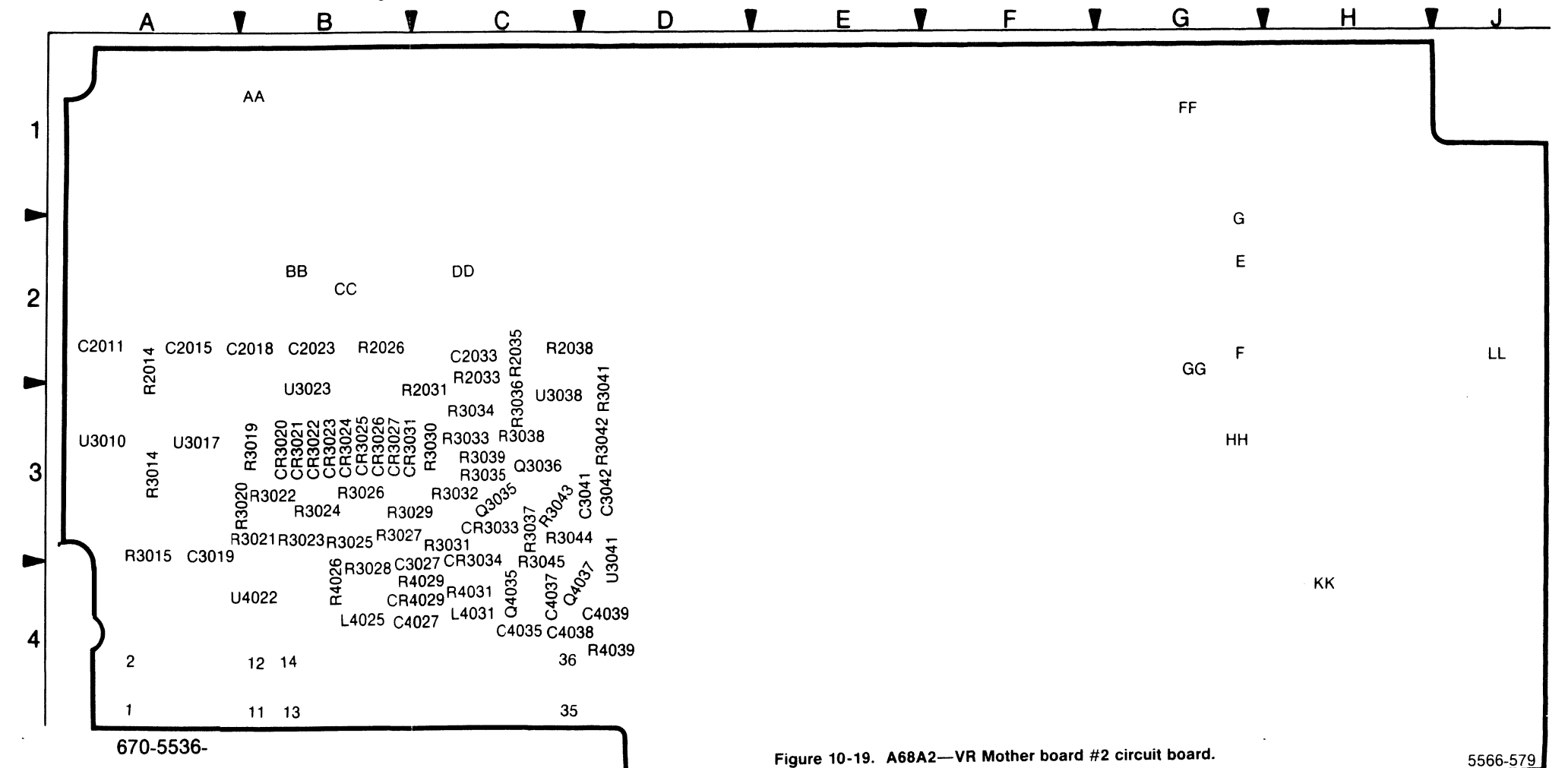
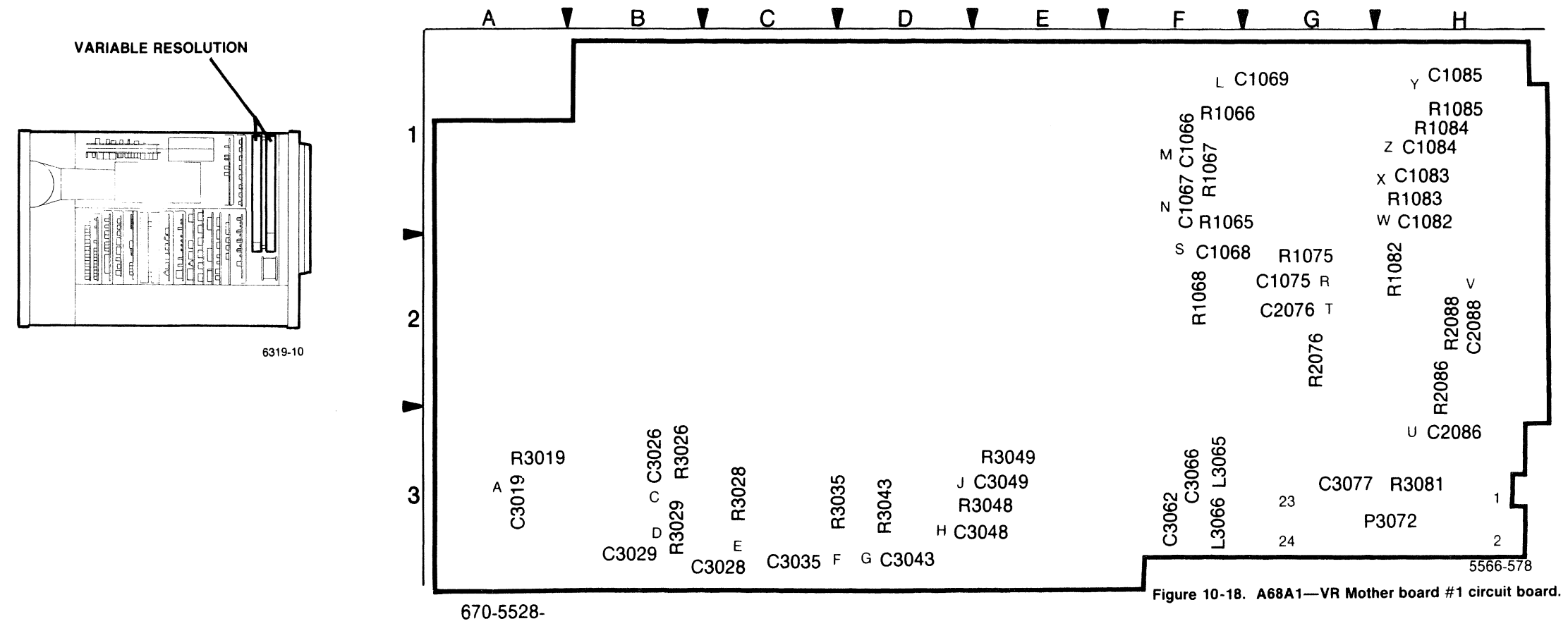
ASSEMBLY A34A1

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1026	C3	B1	J1011	D3	A1	Q2042	B3	D2	R3032	B3	C3
C1038	A2	C1	J1012	D3	A1				R3034	A3	C3
C1044	A2	D1	J1032	D3	C1	R1011	C3	A1	R3035	B3	C3
C1049	B2	D1	J1050	D2	E1	R1021	C4	B1	R3041	B3	D3
C2011	C3	A2	J1054	D2	E1	R1022	C4	B1	R3042	B3	D3
C2021	C3	A2	J3011	D2	A3	R1024	C4	B1	R3044	B2	D3
C2022	C3	B2	J3019	D3	A3	R1041	B4	D1	R3046	B2	D3
C2023	C3	B2	J3027	A4	B3	R1042	B4	D1			
C2039	A3	C3	J3032	A3	C3	R1043	B4	D1	TP1011	B4	A1
C2041	B3	C2	J3042	A4	D3	R1044	B2	D1	TP2042	B3	D2
C2042	B3	D2	J3052	A4	E3	R1045	B2	D1	TP3011	B4	A3
C2044	B2	D2	J3054	D2	E3	R1048	B2	D1	TP3042	A3	D3
C2046	C3	D2				R1051	B4	E1			
C2022	A4	B3	L1041	B2	D1	R2011	C4	A2	U2022	C4	A2
C3036	B3	C3	L2022	C3	B2	R2038	A3	C2	U3031	D3	C3
C3041	B4	D3	L2023	C3	B2	R2042	B3	D2	U3051	D2	E3
C3046	B2	D3	L2052	D2	E3	R2044	B2	D2			
C3055	A4	E3	L3041	B3	D3	R2045	C3	D2	VR1051	B4	E1
						R2046	C3	D2			
CR3039	B3	C3	Q2038	B3	C2	R2047	B3	D2	Y3038	B3	C3
			Q2041	B2	D2	R3031	B3	C3			

ASSEMBLY A34A3A1

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1010	E4	A1	CR1014	E4	A1	K1010	E3	A1	R1014	F4	A1
			CR1016	E4	A1				R1016	E4	A1
CR1010	E4	A1	CR1018	E4	A1	R1010	E3	A1			
CR1012	F4	A1	CR1019	E4	A1	R1012	E4	A1			





VARIABLE RESOLUTION MOTHER BOARDS

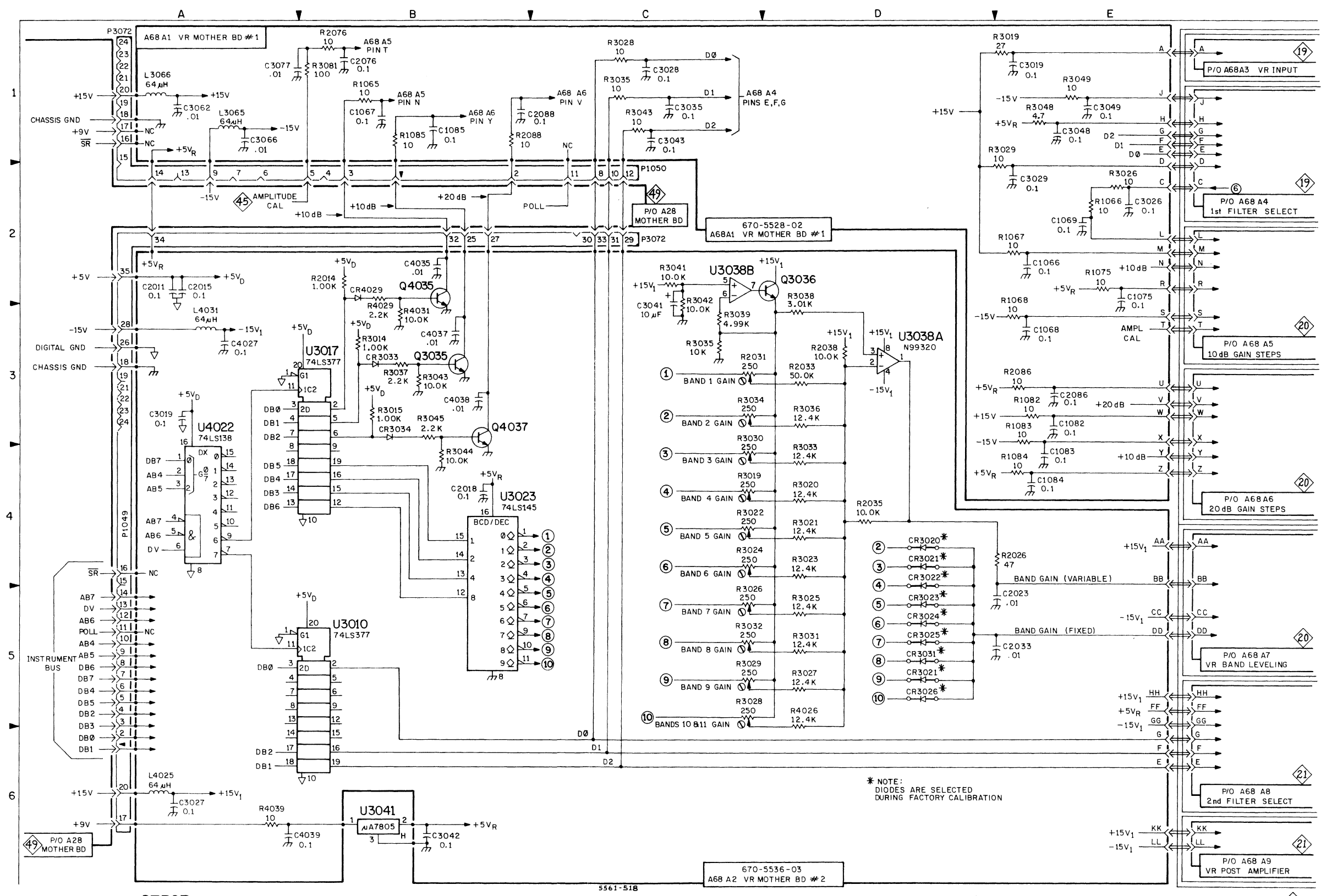
18

ASSEMBLY A68A1

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1066	D1	F1	C3035	D1	C3	R1075	E1	G2
C1067	C1	F1	C3043	D1	D3	R1082	F2	H2
C1068	D1	F2	C3048	E1	E3	R1083	F2	H1
C1068	E1	F2	C3049	E1	E3	R1084	D1	H1
C1069	E1	G1	C3062	A1	F3	R1085	C1	H1
C1075	E1	G2	C3066	B1	F3	R2076	C1	G2
C1082	F2	H1	C3077	C1	G3	R2086	D1	H2
C1083	F2	H1				R2088	C1	H2
C1084	D2	H1	L3065	A1	F3	R3019	F1	A3
C1085	C1	H1	L3066	A1	F3	R3026	F2	B3
C2076	C1	G2				R3028	C1	C3
C2086	E3	H3	P3072	A1	H3	R3029	E1	B3
C2088	C1	H2	P3072	C2	H3	R3035	D1	C3
C3019	F1	A3				R3043	D1	D3
C3026	E1	B3	R1065	C1	F1	R3048	E1	E3
C3026	E1	B3	R1066	F1	F1	R3049	E1	E3
C3028	D1	C3	R1067	D1	F1	R3081	C1	H3
C3029	E1	B3	R1068	D1	F2			

ASSEMBLY A68A2

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C2011	A2	A2	L4025	A3	B4	R3031	E3	C3
C2015	B2	A2	L4031	A2	C4	R3032	E4	C3
C2018	C3	A2				R3033	E3	C3
C2023	E2	B2	Q3035	C2	C3	R3034	E2	C3
C2033	E5	C2	Q3036	D2	C3	R3035	D2	C3
C3019	A2	A3	Q4035	C2	C4	R3036	E2	C3
C3027	A3	B4	Q4037	C3	C4	R3037	C2	C3
C3041	D2	C3				R3038	E2	C3
C3042	B6	D3	R2014	B2	A2	R3039	D2	C3
C4027	A2	B4	R2026	E2	B2	R3041	D2	D3
C4035	C2	C4	R2031	E2	B3	R3042	D2	D3
C4037	C2	C4	R2033	E2	C3	R3043	C2	C3
C4038	C2	C4	R2035	E2	C2	R3044	C3	C3
C4039	B3	C4	R2038	E2	C2	R3045	C2	C4
			R3014	B2	A3	R4026	E4	B4
CR3020	E2	B3	R3015	C2	A3	R4029	C2	B4
CR3021	E3	B3	R3019	E3	A3	R4031	C2	C4
CR3022	E3	B3	R3020	E3	A3	R4039	B3	C4
CR3023	E3	B3	R3021	E3	B3			
CR3024	E3	B3	R3022	E3	B3	U3010	B3	A3
CR3025	E3	B3	R3023	E3	B3	U3017	B2	A3
CR3026	E3	B3	R3024	E3	B3	U3023	C3	B3
CR3027	E3	B3	R3025	E3	B3	U3038A	E2	C3
CR3031	E3	B3	R3026	E3	B3	U3038B	D2	C3
CR3033	B2	C3	R3027	E4	B3	U3041	B6	D4
CR3034	C3	C4	R3028	E4	B4	U4022	B3	B4
CR4029	B2	B4	R3029	E4	B3			
			R3030	E3	B3			



2756P

5561-518

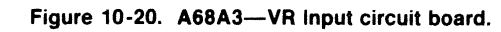
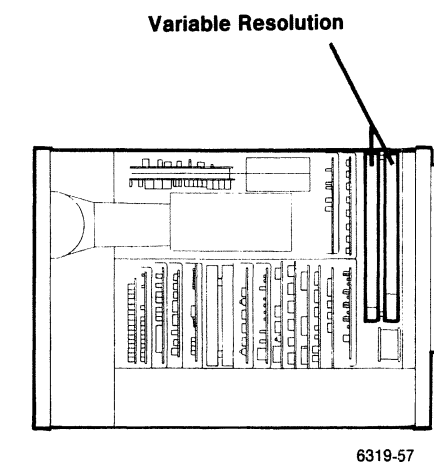
670-5536-03
A68 A2 VR MOTHER BD #2

VARIABLE RESOLUTION MOTHER BOARDS

18

VARIABLE RESOLUTION
MOTHER BOARDS

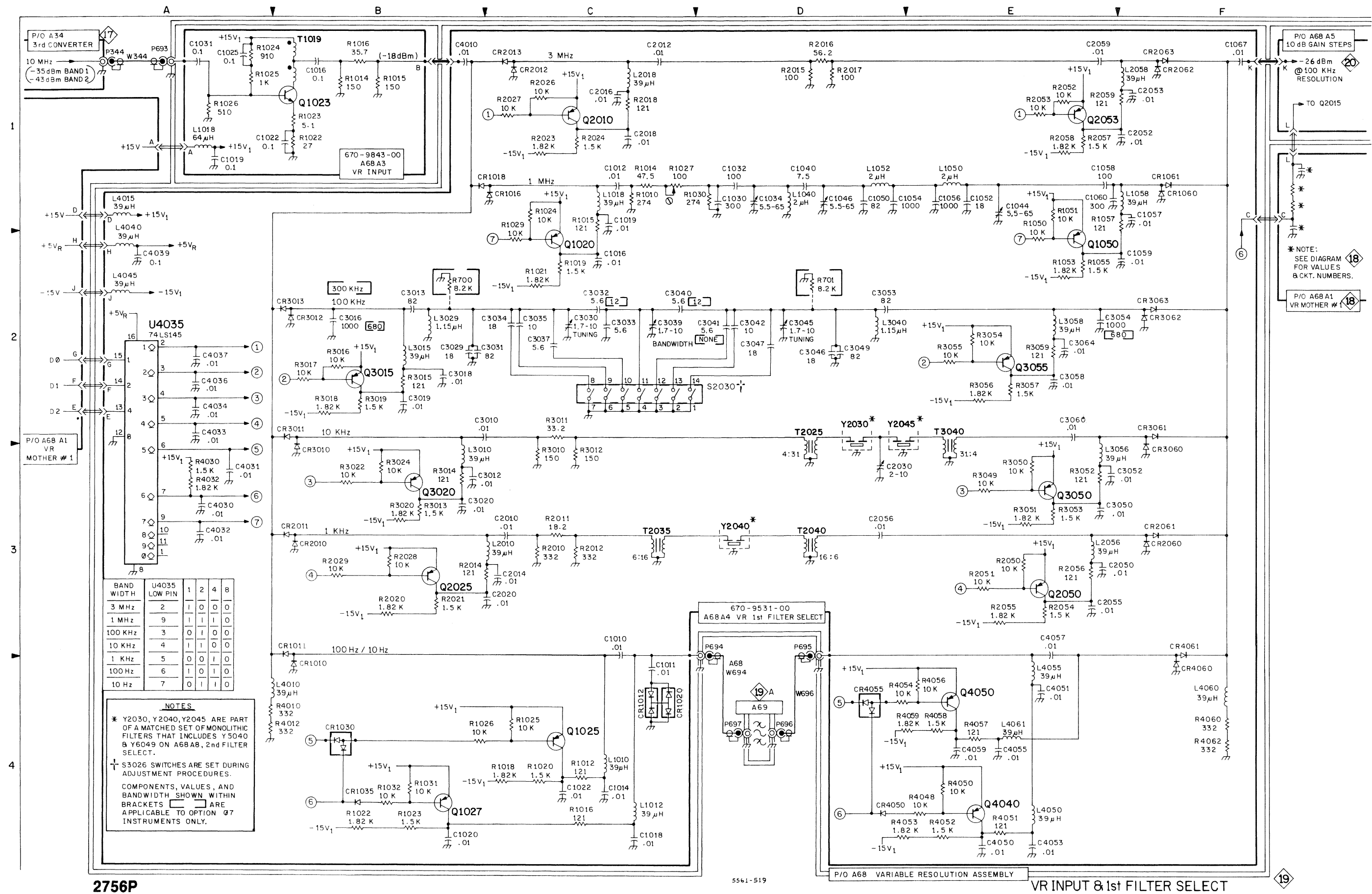
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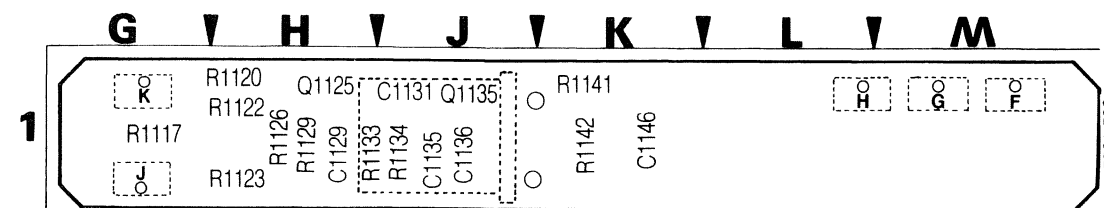
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CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
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C1019	A1	A1				R1025	A1	B1
C1022	B1	B1	R1014	B1	A1	B1	A1	B1
C1025	A1	B1	R1015	B1	A1			
C1031	A1	C1	R1016	B1	A1	T1019	B1	A1
			R1022	B1	B1			
L1018	A1	A1	R1023	B1	B1			

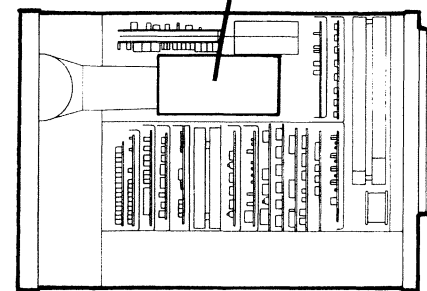
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C1010	C3	A1	C3058	E2	D3	L3015	B2	A3	R2024	C1	A2
C1011	C4	A1	C3060	E2	D3	L3029	B2	B3	R2026	C1	B2
C1012	C1	A1	C3064	E2	D3	L3040	D2	C3	R2027	C1	B2
C1014	C4	A1	C4010	B1	A4	L3058	E3	D3	R2028	B3	B2
C1016	C2	A1	C4030	A3	B4	L3058	E2	D3	R2029	B3	B2
C1018	C4	A1	C4031	A3	B4	L4010	B4	A4	R2050	E3	D2
C1019	C1	A2	C4032	A3	B4	L4015	A1	A4	R2051	E3	D2
C1020	B4	A1	C4033	A2	B4	L4040	A2	C4	R2052	E1	D2
C1022	C4	B1	C4034	A2	B4	L4045	A2	C4	R2053	E1	D2
C1030	D1	B1	C4036	A2	C4	L4050	E4	D4	R2054	E3	D2
C1032	D1	B1	C4037	A2	C4	L4055	E4	D4	R2055	E3	D2
C1034	D1	B1	C4039	A2	C4	L4060	F4	D4	R2056	E3	D2
C1040	D1	C1	C4050	E4	D4	L4061	E4	D4	R2057	E1	D2
C1044	E1	C1	C4051	E4	D4				R2058	E1	D2
C1046	D1	C1	C4053	E4	D4	Q1020	C2	B1	R2059	F1	D2
C1050	D1	D1	C4055	E4	D4	Q1025	C4	B1	R3010	C3	A3
C1052	E1	D1	C4057	E3	D4	Q1027	B4	B1	R3011	C2	A3
C1054	D1	D1	C4059	E4	D4	Q1050	E2	D1	R3012	C3	A3
C1056	E1	D1				Q2010	C1	A2	R3013	B3	A3
57	F1	D2	CR1010	B4	A1	Q2025	B3	B2	R3014	B3	A3
58	E1	D1	CR1011	B3	A1	Q2050	E3	D2	R3015	B2	A3
C1059	F2	D1	CR1012	C4		Q2053	E1	D2	R3016	B2	A3
C1060	E1	D1	CR1016	C1	A1	Q3015	B2	A3	R3017	B2	A3
C1067	F1	D1	CR1018	B1	A1	Q3020	B3	B3	R3018	B2	A3
C2010	C3	A2	CR1020	C4	A1	Q3050	E3	D3	R3019	B2	A3
C2012	C1	A2	CR1030	B4	B1	Q3055	E2	D3	R3020	B3	A3
C2014	C3	A2	CR1035	B4	B1	Q4040	E4	C4	R3022	B3	B3
C2016	C1	A2	CR1060	F1	D1	Q4050	E4	D4	R3024	B3	B3
C2018	C1	A2	CR1061	F1	D1				R3049	E3	D3
C2020	C3	A2	CR2010	B3	A2	R1010	C1	A1	R3050	E3	D3
C2030	D3	B2	CR2011	B3	A2	R1012	C4	A1	R3051	E3	D3
C2050	E3	D2	CR2012	C1	A2	R1014	C1	A1	R3052	E3	D3
C2052	F1	D2	CR2013	C1	A2	R1015	C1	A1	R3053	E3	D2
C2053	F1	D2	CR2060	F3	D2	R1016	C4	A1	R3054	E2	D3
C2055	E3	D2	CR2061	F3	D2	R1018	C4	A1	R3055	E2	D3
C2056	D3	D2	CR2062	F1	D2	R1019	C2	A1	R3056	E2	D3
C2059	E1	D2	CR2063	F1	D2	R1020	C4	A1	R3057	E2	D3
C3010	C2	A3	CR3010	B3	A3	R1021	C2	A1	R3059	E2	D3
C3012	B3	A3	CR3011	B2	A3	R1022	B4	B1	R4010	B4	A4
C3013	B2	A3	CR3012	B2	A3	R1023	B4	B1	R4012	B4	A4
C3016	B2	A3	CR3013	B2	A3	R1024	C1	B1	R4030	A3	B4
C3018	B2	A3	CR3060	F3	D3	R1025	C4	B1	R4032	A3	B4
C3019	B2	A3	CR3061	F2	D3	R1026	B4	B1	R4048	E4	C4
C3020	B3	B3	CR3062	F2	D3	R1027	C1	B1	R4050	E4	C4
C3029	B2	B4	CR3063	F2	D3				R4051	E4	D4
C3030											



VR INPUT & 1ST FILTER SELECT



10 Hz/100 Hz BAND-PASS FILTER ASSEMBLY



1

A **B** **C** **D** **E** **F**

F **G** **H** **K** **J**

R1010 C1010 C1012 C1021 C1025 C1032 670-9947 Y1040 U1055

A I B

1 T1022 C1021 100

2 P N Y2020

3 T3015 R3025

4 M L T4016 T4025 R4021

5 K U5022 R5018 R5019 R5023 R5024 R5025

J 670-9946 5561-5566

Fig. 10-27 A69A2 — 10 Hz/100 Hz Bandpass Filter circuit board (rear)

VR 10 Hz/100 Hz BANDPASS FILTER

ASSEMBLY A69A1

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1111	A4	C1	Q5010	B1	A5	R4124	A3	D4	T1011	A2	A1
C1127	A2	D1	Q5015	B1	A5	R4125	A3	D4	T3025	A2	B3
C2121	A3	D2	Q5020	A4	B5	R4127	A1	D4	T4020	A2	B4
C2125	A3	D2	Q5025	B4	B5	R5010	B1	A5	T4025	B2	B4
C3121	A3	D3				R5111	B4	C5			
C3125	A3	D3	R1111	A4	C1	R5113	B4	C5	U5010	A1	A5
C3129	A3	D3	R2129	A2	D2	R5115	B4	C5	U5020	B2	B5
C4010	A1	A4	R3010	A3	A3	R5117	B5	C5			
C4011	B1	A4	R3111	A2	C3	R5121	A2	D5	Y2025	A2	B2
C4111	A5	C4	R3115	A2	C3	R5123	A2	D5			
C4113	A4	C4	R3117	A2	C3	R5125	A1	D5			
C4115	A2	C4	R3121	A3	D3	R5127	A1	D5			
C5020	A3	B5	R4111	A5	C4						
C5021	B3	B5	R4121	A3	D4						
C5127	A1	D5	R4122	A3	D4						

ASSEMBLY A69A2

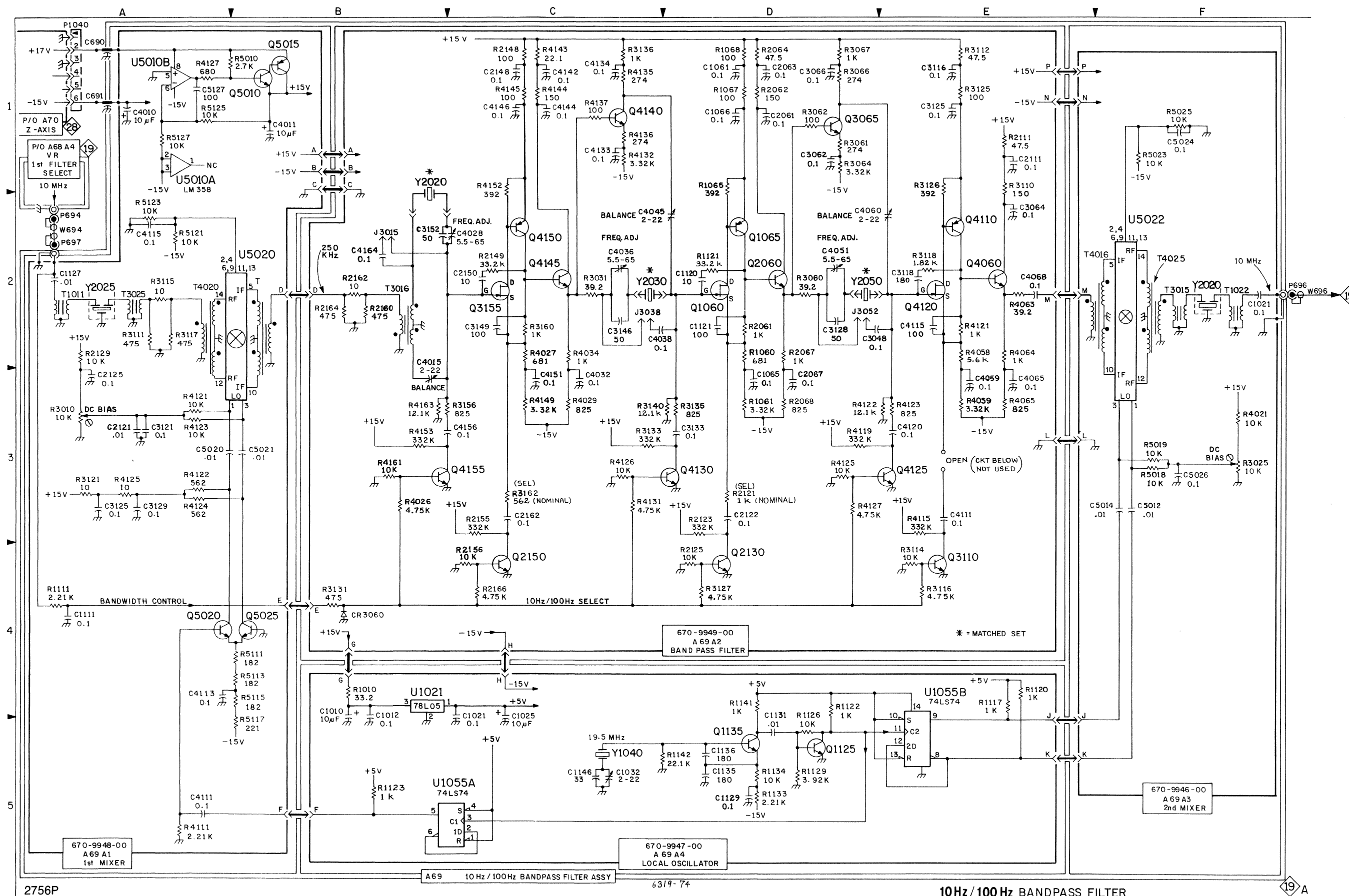
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C1061	D1	F1	C4142	C1	K4	R2067	D2	F2	R4034	C2	C4
C1065	D3	F1	C4144	C1	K4	R2068	D3	F2	R4058	E2	E4
C1066	D1	F1	C4146	C1	K4	R2111	E1	G2	R4059	E3	E4
C1120	D2	H1	C4151	C3	L4	R2121	D3	G2	R4063	E2	F4
C1121	D2	H1	C4156	C3	L4	R2123	D3	G2	R4064	E2	F4
C2061	D1	F2	C4164	B2	M4	R2125	D4	G2	R4065	E3	F4
C2063	D1	F2				R2148	C1	K2	R4113	E3	G4
C2067	D1	F2	CR3060	B4	F3	R2149	C2	K2	R4115	E3	G4
C2111	E1	G2				R2155	C3	L2	R4119	D3	G4
C2122	D3	H2	J3015	B2	A3	R2156	C4	L2	R4121	E2	H4
C2148	C1	K2	J3038	C2	C3	R2160	B2	M2	R4122	E3	H4
C2150	C2	L2	J3052	D2	E3	R2162	B2	M2	R4125	D3	H4
C3048	D2	D3				R2164	B2	M2	R4126	C3	H4
C3062	D1	F3	Q1060	D2	F1	R2166	C4	M2	R4127	D3	H4
C3064	E2	F3	Q1065	D2	F1	R3031	C2	C3	R4131	C3	J4
C3066	D1	F3	Q2060	D2	F2	R3060	D2	F3	R4132	C1	J4
C3116	E1	G3	Q2130	D4	J2	R3061	D1	F3	R4135	C1	J4
C3118	E2	G3	Q2150	C4	L2	R3062	D1	F3	R4136	C1	J4
C3125	E1	H3	Q3065	D1	F3	R3064	D1	F3	R4137	C1	J4
C3128	D2	H3	Q3110	E4	G3	R3066	D1	F3	R4143	C1	K4
C3133	D3	J3	Q3155	C2	L3	R3067	D1	F3	R4144	C1	K4
C3146	C2	K3	Q4060	E2	F4	R3110	E1	G3	R4145	C1	K4
C3149	C2	K3	Q4110	E2	G4	R3112	E1	G3	R4149	C3	K4
C3152	B2	L3	Q4120	E2	H4	R3114	E4	G3	R4152	C1	L4
C4015	B3	A4	Q4125	E3	H4	R3116	E4	G3	R4153	B3	L4
C4028	C2	B4	Q4130	D3	J4	R3118	E2	G3	R4161	B3	M4
C4032	C3	C4	Q4140	C1	K4	R3125	E1	H3	R4163	B3	M4
C4036	C2	C4	Q4145	C2	K4	R3126	E1	H3			
C4038	C2	C4	Q4150	C2	L4	R3127	D4	H3	T3016	B2	A3
C4045	D2	D4	Q4155	C3	L4	R3131	B4	J3	Y2020	B2	B2
C4051	D2	E4				R3133	C3	J3	Y2030	C2	E2
C4059	E3	E4	R1060	D2	F1	R3135	D3	J3	Y2050	D2	E2
C4060	E2	F4	R1061	D3	F1	R3136	C1	J3			
C4065	E3	F4	R1065	D1	F1	R3140	D3	K3			
C4068	E2	F4	R1067	D1	F1	R3156	C3	L3			
C4111	E3	G4	R1068	D1	F1	R3160	C2	M3			
C4115	E2	G4	R1121	D2	H1	R3162	C3	M3			
C4120	E3	H4	R2061	D2	F2	R4026	B3	B4			
C4133	C1	J4	R2062	D1	F2	R4027	C2	B4			
C4134	C1	J4	R2064	D1	F2	R4029	C3	B4			

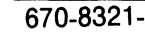
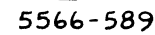
ASSEMBLY A69A3

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1021	F2	B1	R3025	F3	B3	R5025	F1	B5	T4025	F2	B4
C5012	F3	A5	R4021	F3	B4						
C5014	F3	A5	R5018	F3	A5	T1022	F2	B1	U5022	F2	B5
C5024	F1	B5	R5019	F3	A5	T3015	F2	A3			
C5026	F3	B5	R5023	F1	B5	T4016	F2	A4	Y2020	F2	B2

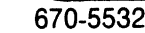
ASSEMBLY A69A4

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C1010	B4	A1	C1135	D5	J1	R1117	E4	G1	R1134	D5	J1
C1012	B4	A1	C1136	D5	J1	R1120	E4	H1	R1141	D4	K1
C1021	C4	B1	C1146	C5	K1	R1122	D4	H1	R1142	D5	K1
C1025	C4	B1				R1123	D4	H1			
C1129	D5	H1	Q1125	D5	H1	R1126	D5	H1	U1021	B4	B1
C1032	C5	C1	Q1135	D5	J1	R1129	D5	H1	U1055A	C5	E1
C1131	D5	J1				R1133	D5	J1	U1055B	E5	E1
			R1010	B4	A1				Y1040	C5	D1

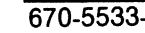




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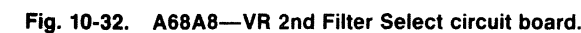


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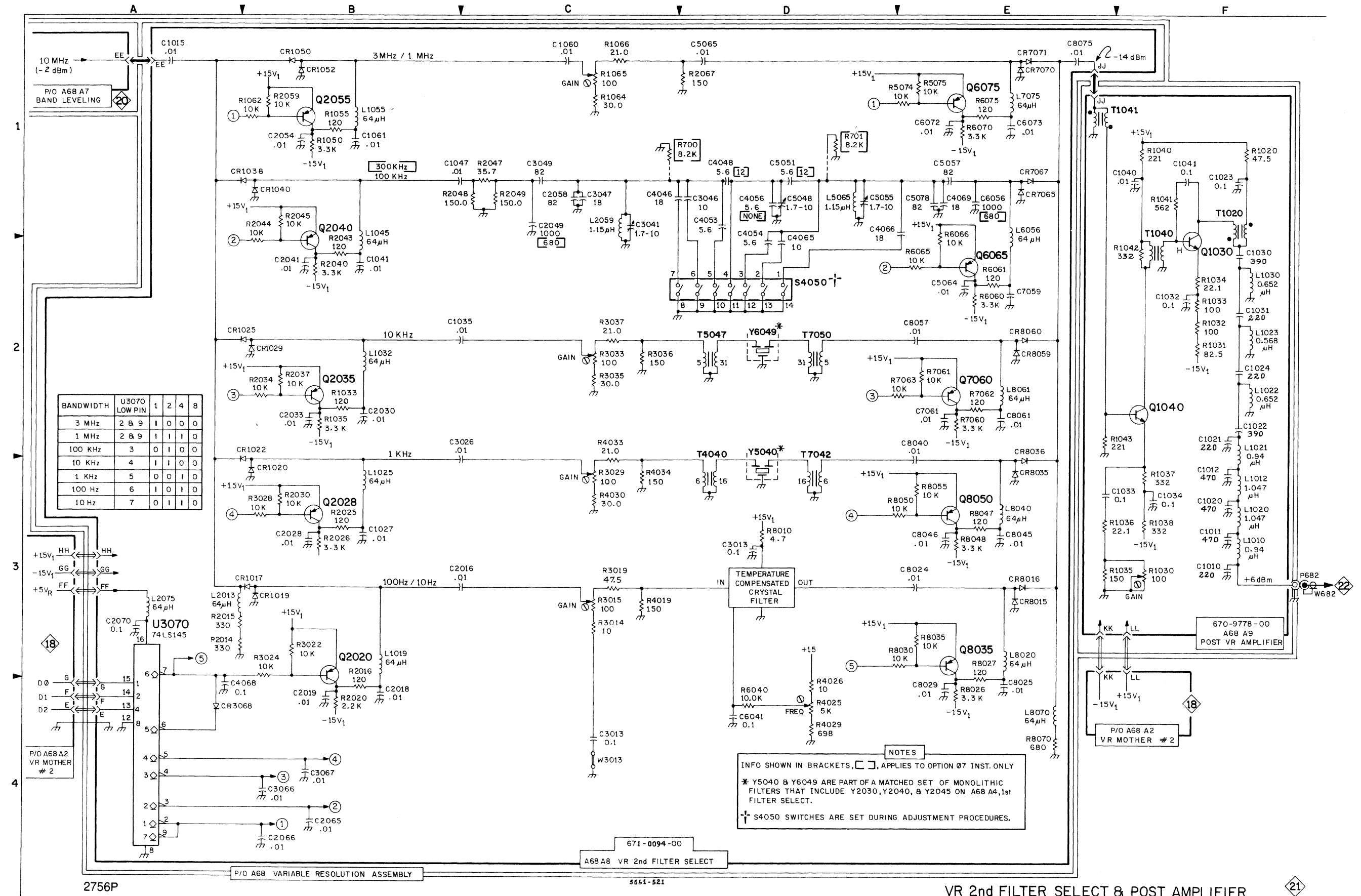
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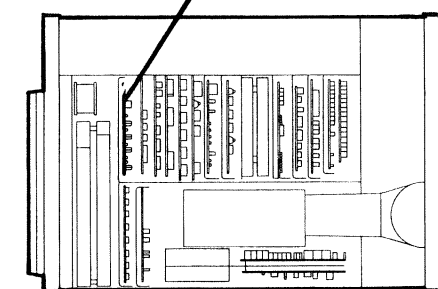
21

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1010	F3	A1	P682	F3	A1
C1011	F3	A1			
C1012	F3	A1			
C1020	F3	B1			
C1021	F2	B1			
C1022	F2	B1	R1020	F1	B1
C1023	F1	B1	R1030	F3	C1
C1024	F2	B1	R1031	F2	C1
C1030	F2	C1	R1032	F2	C1
C1031	F2	C1	R1033	F2	C1
C1032	F2	C1	R1034	F2	C1
C1033	E3	C1	R1035	E3	C1
C1034	F3	C1	R1036	E3	C1
C1040	F1	D1	R1037	F3	C1
C1041	F1	D1	R1038	F3	C1
			R1040	F1	D1
L1010	F3	A1	R1041	F1	D1
L1012	F3	A1	R1042	F1	D1
L1020	F3	B1	R1043	E2	D1
L1021	F2	B1			
L1022	F2	B1	T1020	F1	B1
L1023	F2	B1	T1040	F2	D1
L1030	F2	C1	T1041	E1	D1





6319-80



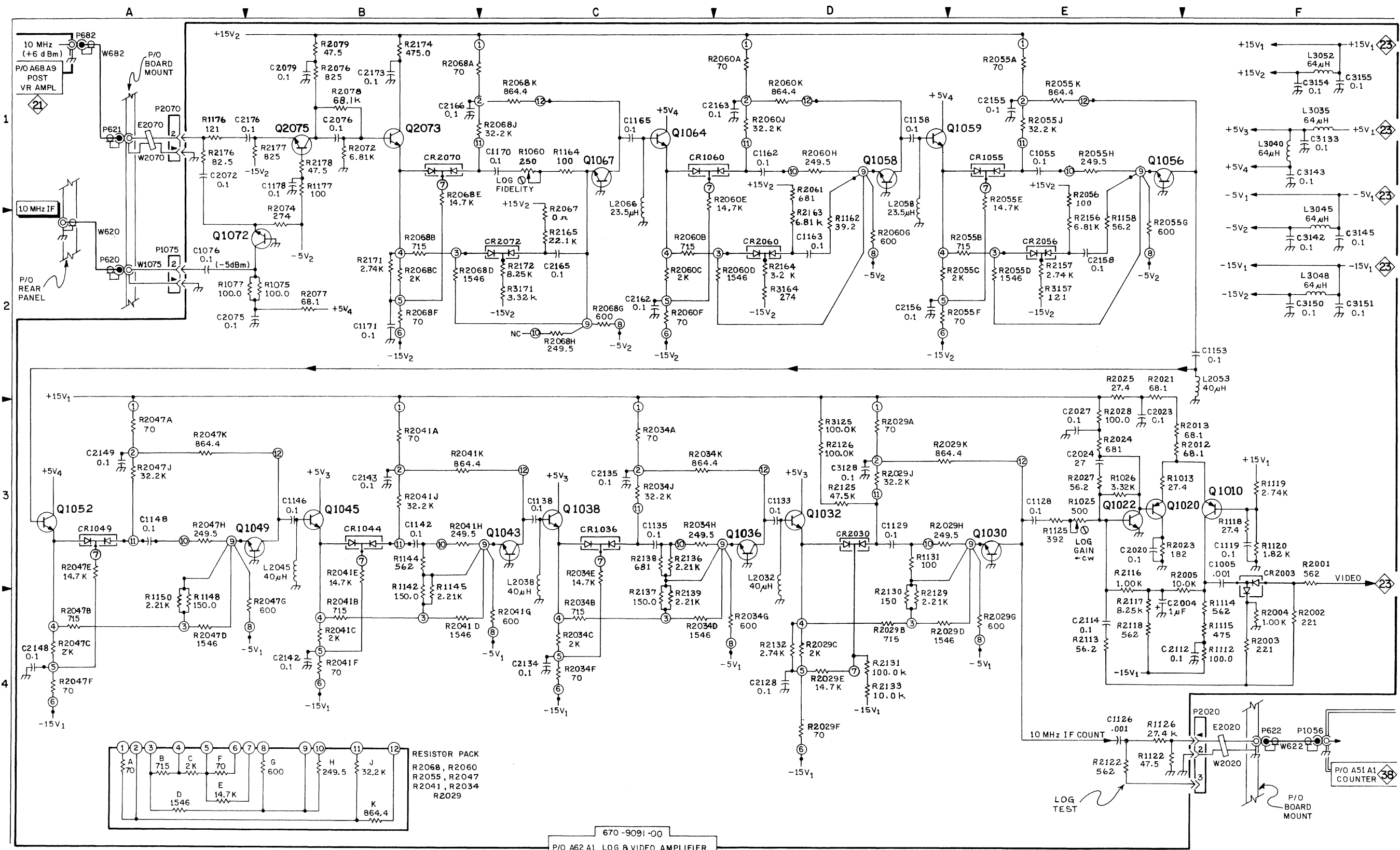
LOG AMPLIFIER & DETECTOR

22

ASSEMBLY A62A1 (FRONT)

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1005	F3	A1	L2032	D3	B2	Q4058	D3	D3	R2077	B2	E1
C1055	E1	D1	L2038	C3	B2	Q4059	D3	D3	R2078	B1	E2
C1076	A2	E1	L2045	B3	C2	Q5045	C2	C4	R2079	B1	E2
C2004	E4	A2	L2053	F2	C2	Q5046	C2	C4	R4043	B4	C3
C2020	E3	A2	L2058	D1	D2	Q5055	D1	D4	R4044	C4	C3
C2023	E3	A2	L2066	C1	D2	Q5056	E2	D4	R4045	C5	C3
C2024	E3	A1	L3035	F1	B2	Q5057	F1	D4	R4046	B4	C3
C2027	E3	A2	L3040	F1	B2	Q5063	F2	D4	R4047	C4	C3
C2072	A1	E1	L3045	F2	C2	Q5064	F2	D4	R4048	C3	C3
C2075	B2	E1	L3048	F2	C2	Q6055	F2	C4	R4049	C3	C3
C2076	B1	E2	L3052	F1	C2				R4053	E5	D3
C2079	B1	E2	L4036	A4	B3	R1012	D5	A1	R4060	D2	D3
C4043	B5	C3	L4037	A4	B3	R1013	E3	A1	R4061	D2	D3
C4044	B5	C3	L4038	B4	B3	R1025	E3	A1	R4062	D2	D3
C4052	E5	C3	L4039	B4	B3	R1026	E3	A1	R4064	D3	D3
C4063	D2	D3	L5070	A1	E4	R1030	E2	B1	R4065	D3	D3
C4070	A1	E3				R1037	C5	B1	R4066	D3	D3
C4074	A1	E3				R1060	C1	D1	R4067	D3	D3
C4076	A1	E3				R1075	B2	E1	R4068	D3	D3
C5047	C2	C4				R1077	B2	E1	R5046	C3	C3
C5048	C3	C4				R2001	F3	A2	R5047	C3	C4
C5066	A1	D4				R2002	F4	A2	R5048	C3	C4
C5074	A1	E4				R2003	F4	A2	R5049	C1	C4
C5076	A2	E4				R2004	F4	A2	R5052	C1	C4
C6065	A2	D4				R2005	E3	A1	R5065	E2	D3
C6070	A2	E4				R2012	E3	A1	R6046	D1	C4
C6072	A2	E4				R2013	E3	A2	R6047	C1	C4
CR1036	C3	B1				R2021	E2	A2	R6049	F1	C4
CR1044	B3	C1				R2023	E3	A2	R6058	F1	D4
CR1049	A3	C1				R2024	E3	A2	R6059	E1	D4
CR1055	E1	D1				R2025	E2	A2			
CR1060	C1	D1				R2027	E3	A1			
CR2003	F3	A1				R2028	E3	A2			
CR2030	D3	B1				R2029	D3	B2			
CR2056	E2	D2				R2034	C3	B2			
CR2060	D2	D1				R2041	B3	C2			
CR2070	B1	E1				R2047	A3	C2			
CR2072	C2	E2				R2055	E1	D2			
CR4042	C2	C3				R2056	E1	D2			
CR5045	C2	C4				R2060	C1	D2			
CR5047	C3	C4				R2061	D1	D2			
CR5056	E2	D4				R2067	C1	D2			
CR5062	D3	D4				R2068	B1	E2			
CR6050	F1	C4				R2072	B1	E2			
CR6057	E2	D4				R2074	B2	E1			
						R2076	B1	E2			

Partial A62A1 is also shown on Diagram 23





LOG & VIDEO AMPLIFIER



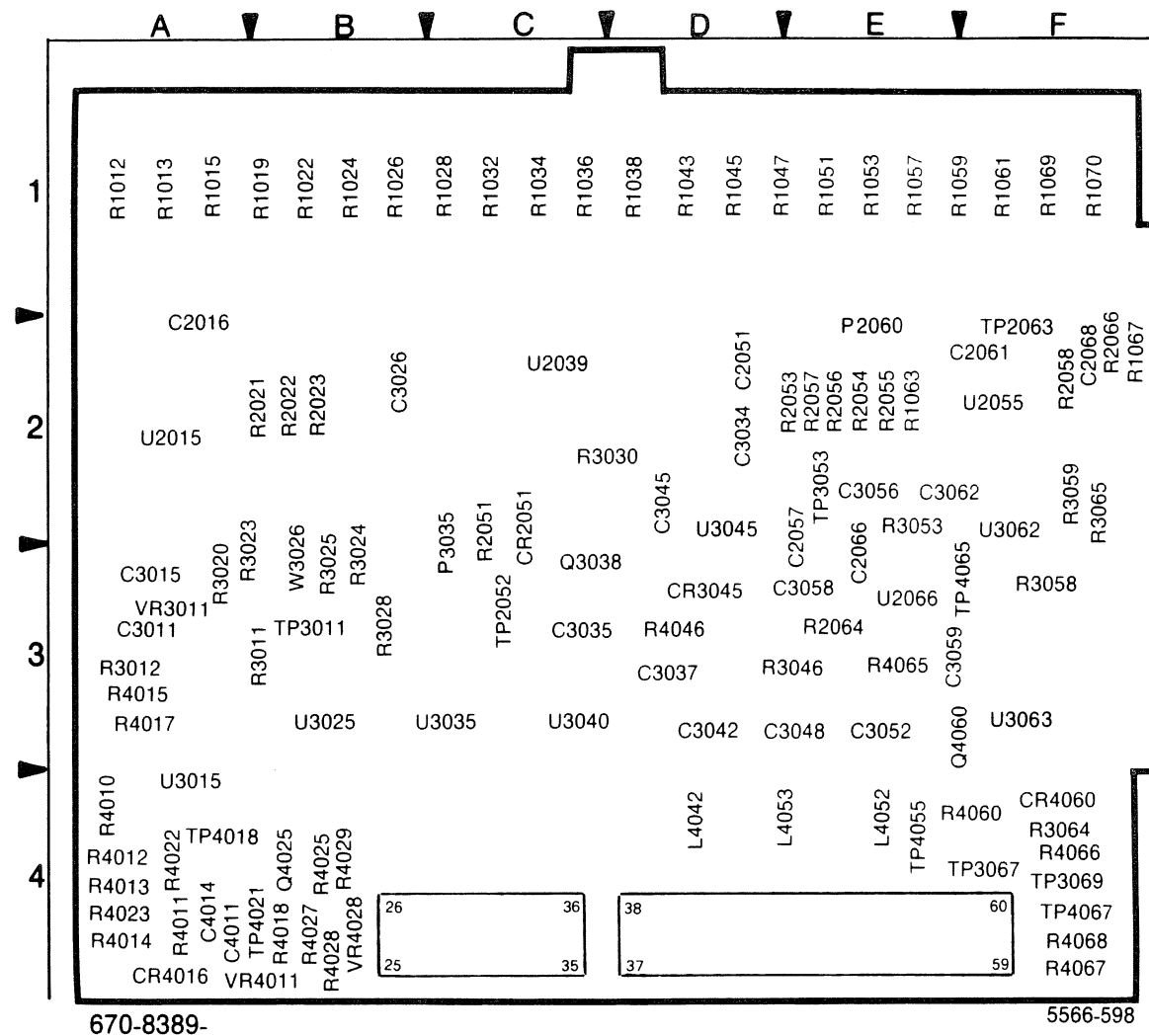
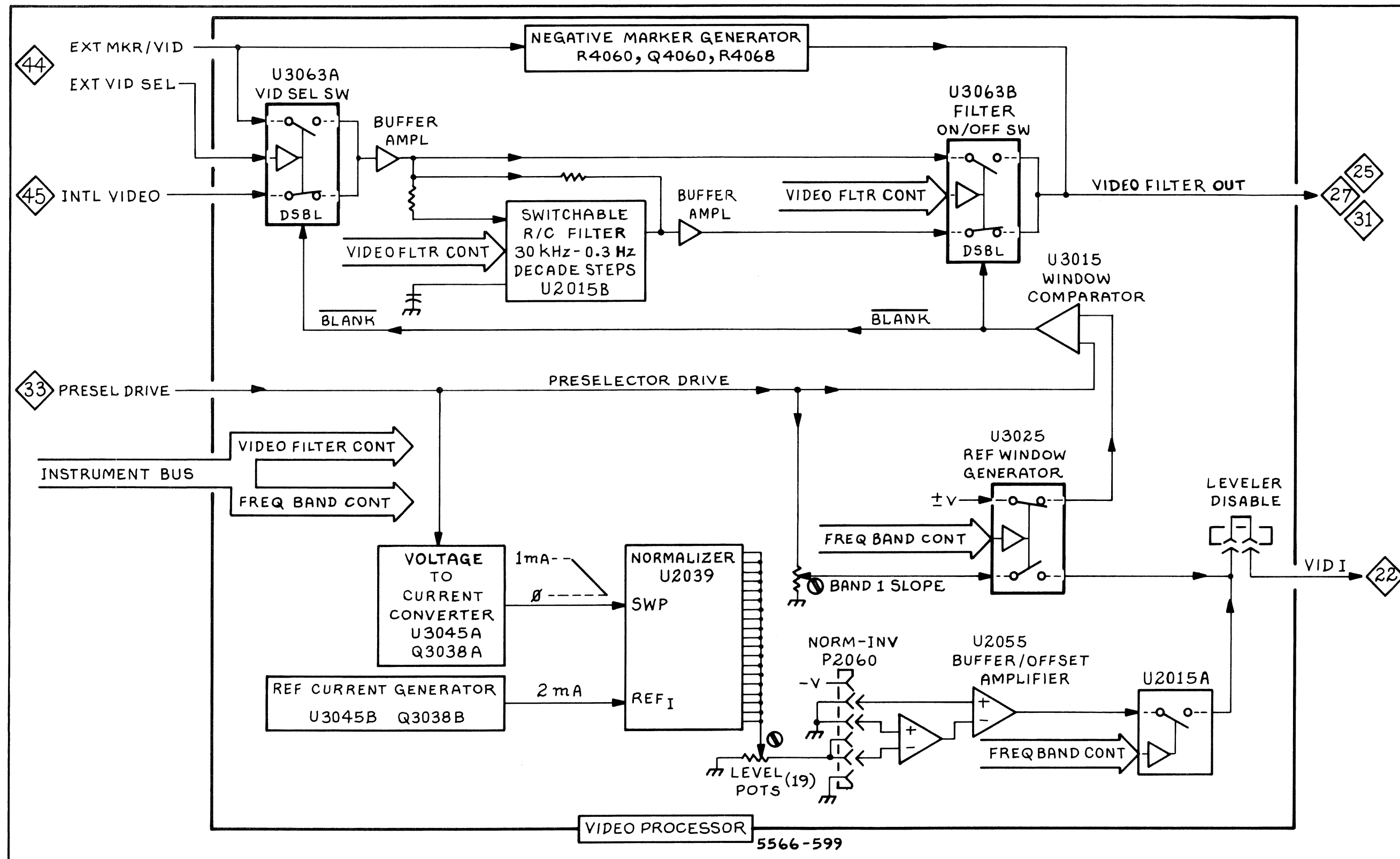
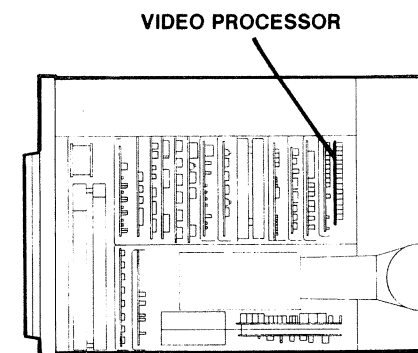


Fig. 10-36. A40—Video Processor circuit board.



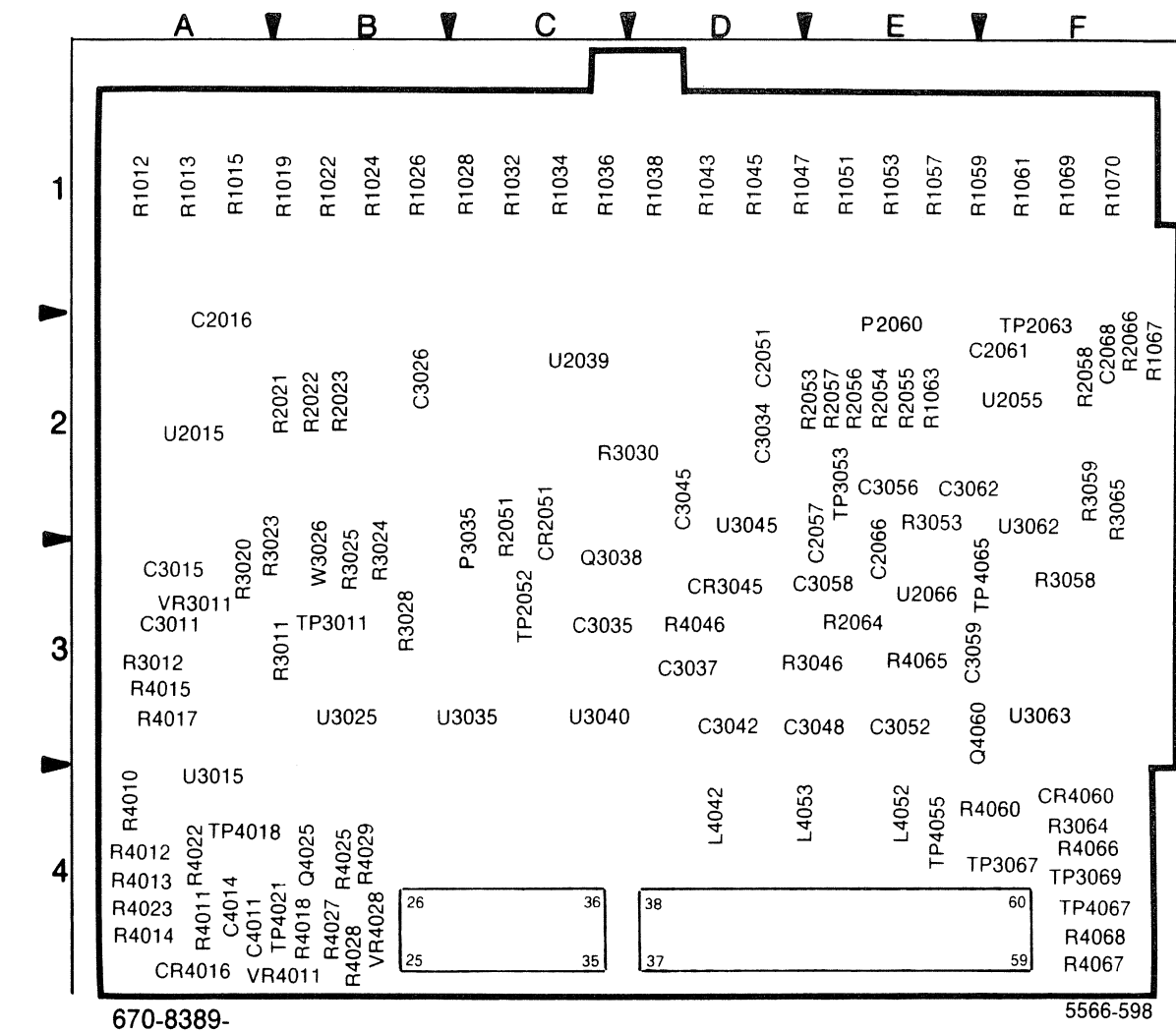
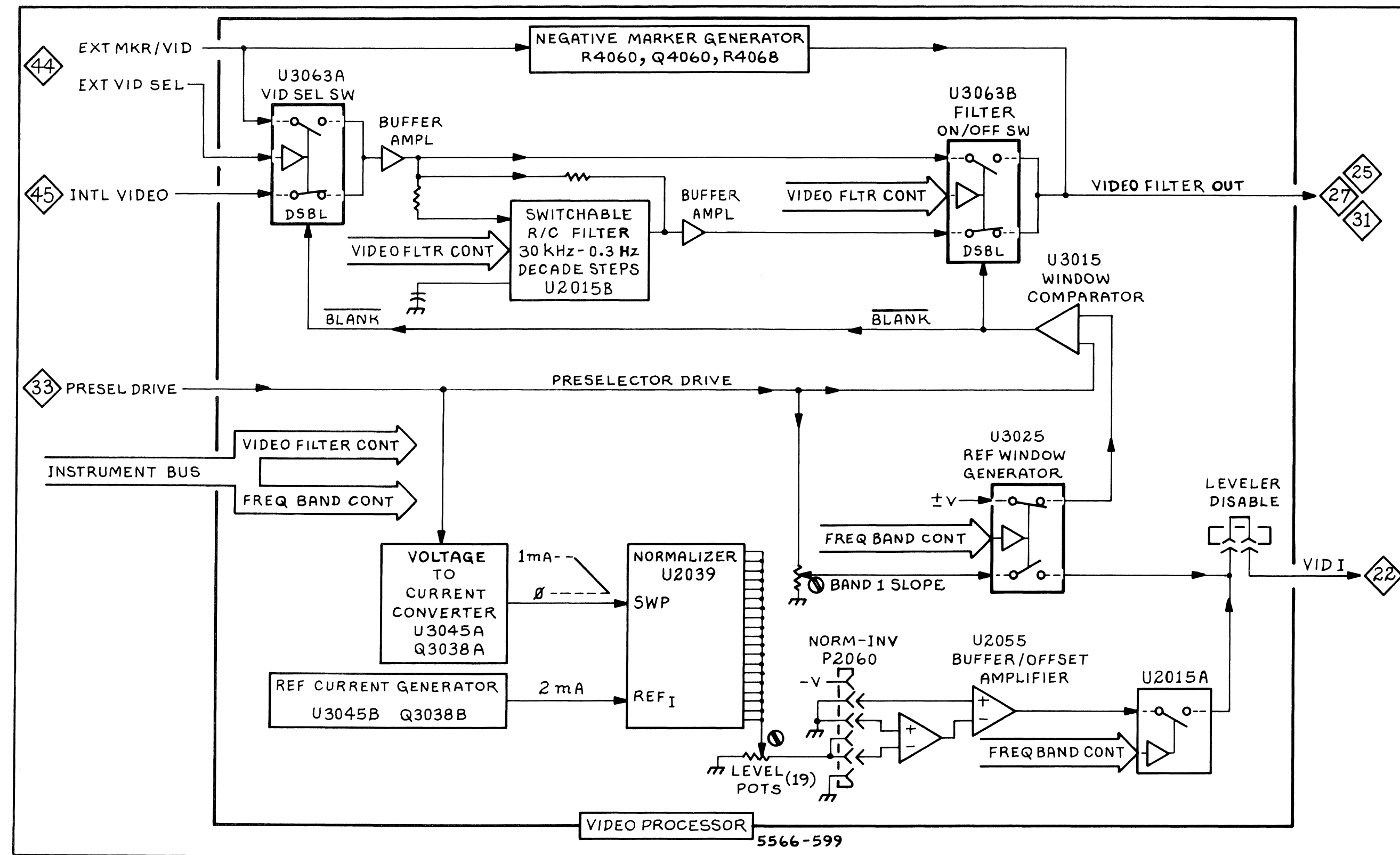
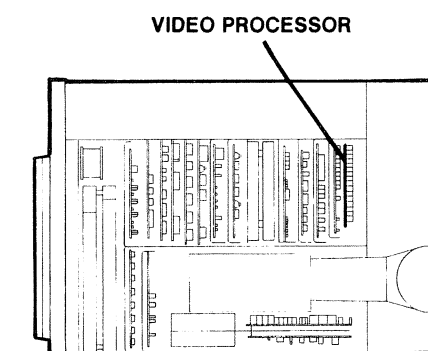
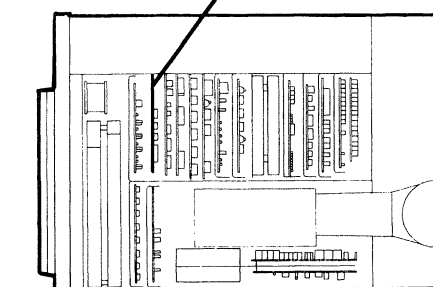
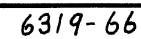
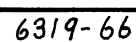


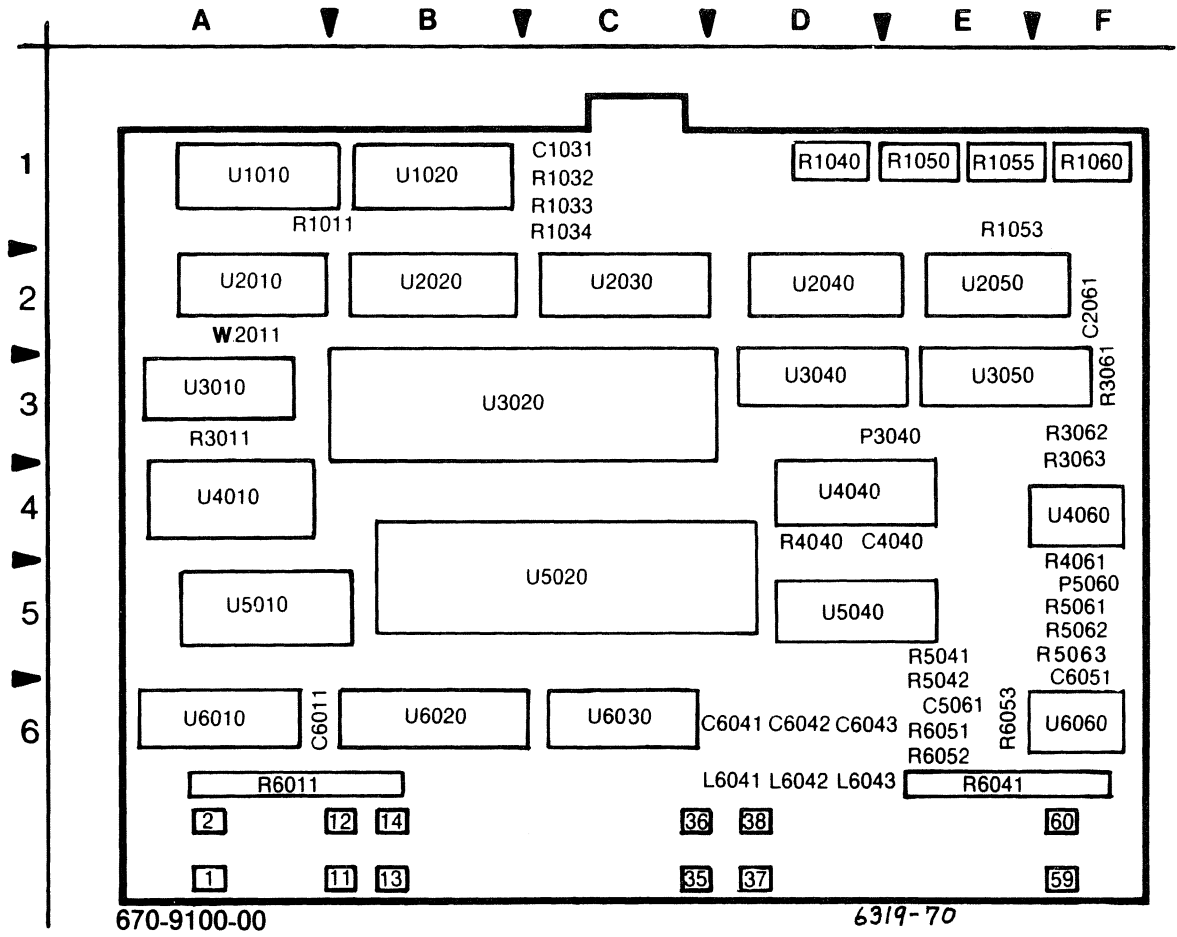
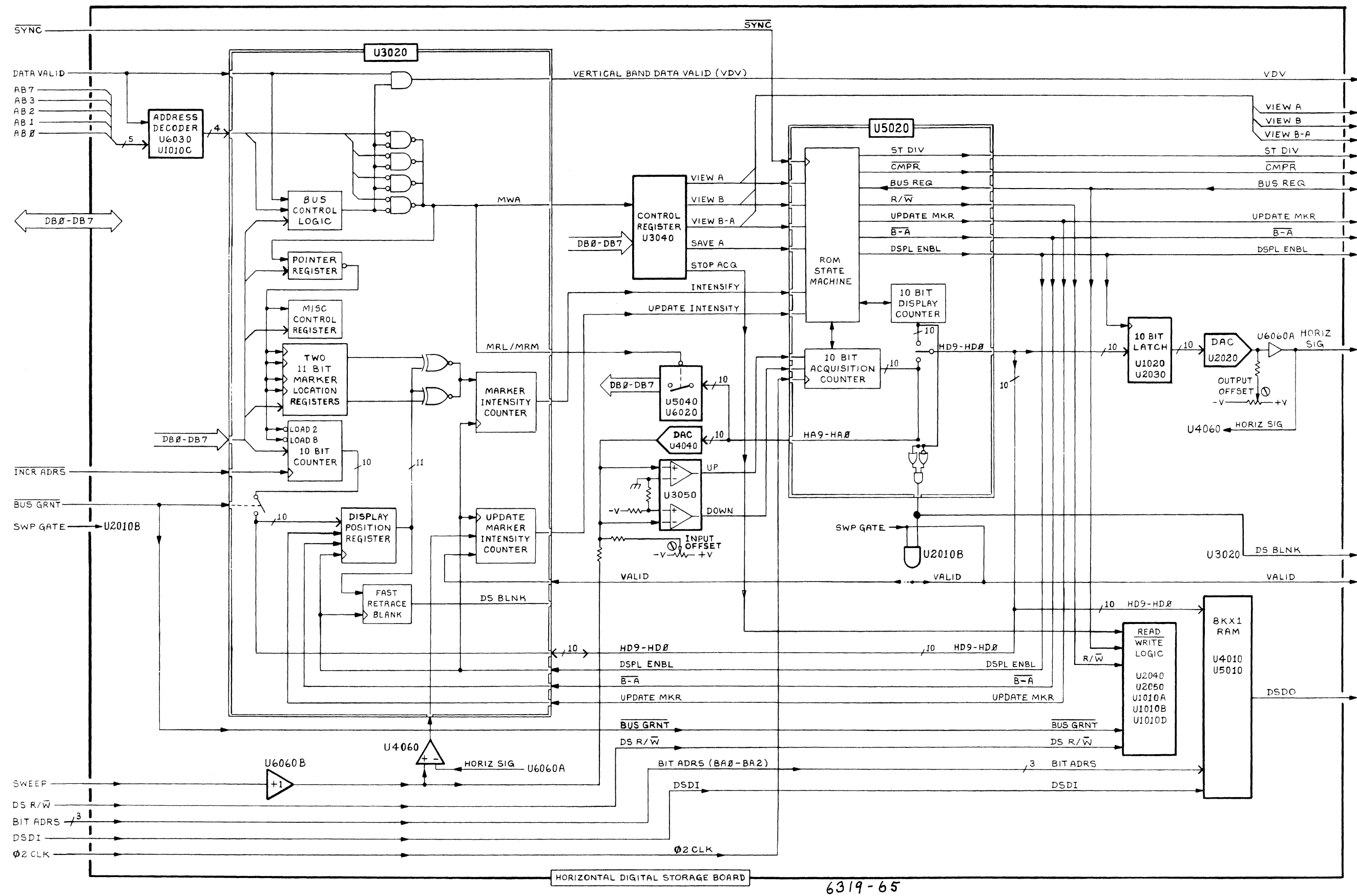
Fig. 10-36. A40—Video Processor circuit board.



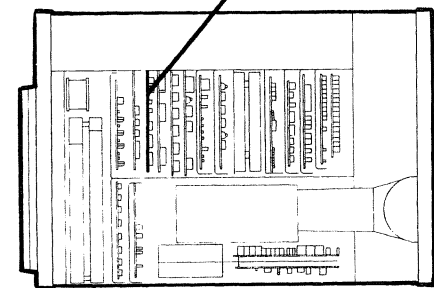




HORIZ DGTL STORAGE BLOCK
DIAG & CKT BD ILLUS



DIGITAL STORAGE, HORIZONTAL



HORIZ DGTL STORAGE BLOCK
DIAG & CKT BD ILLUS

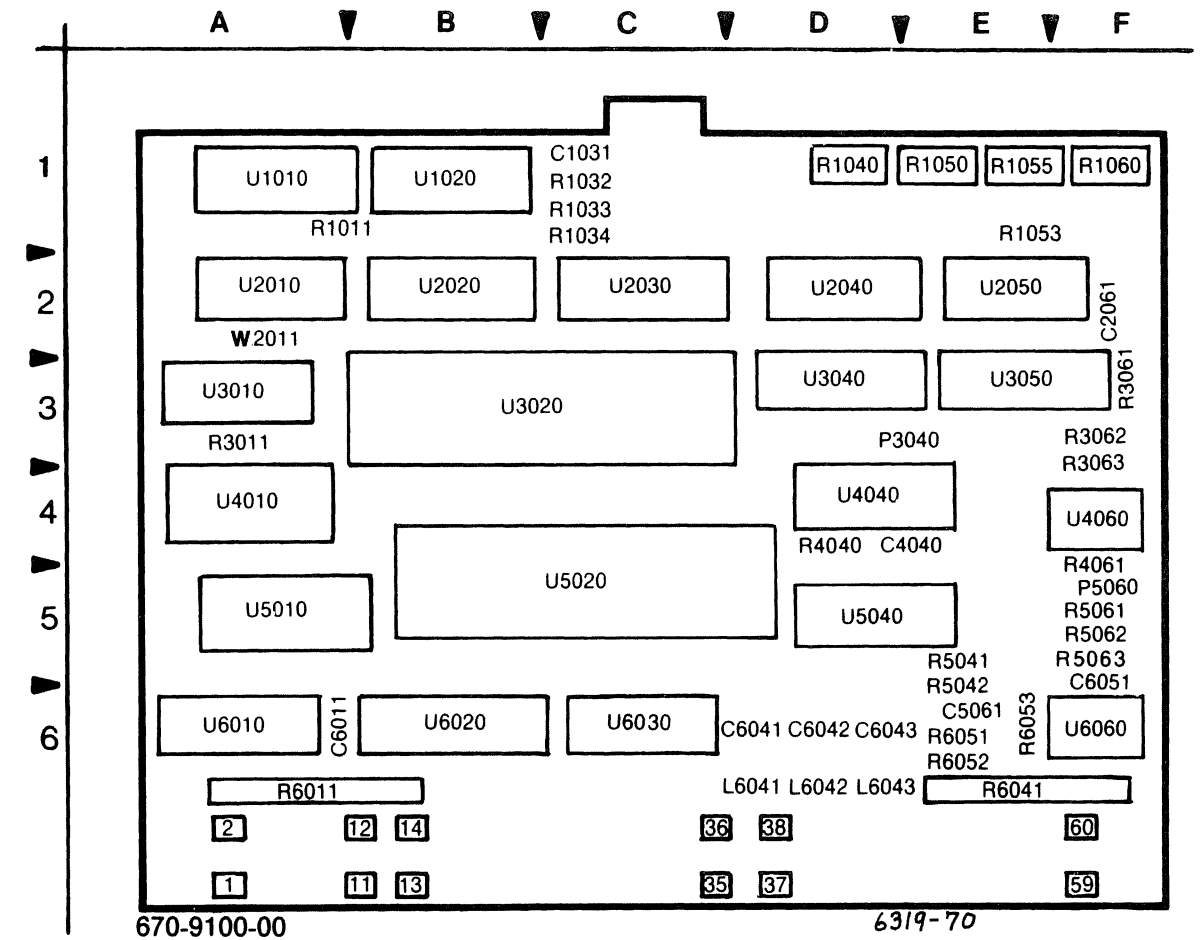
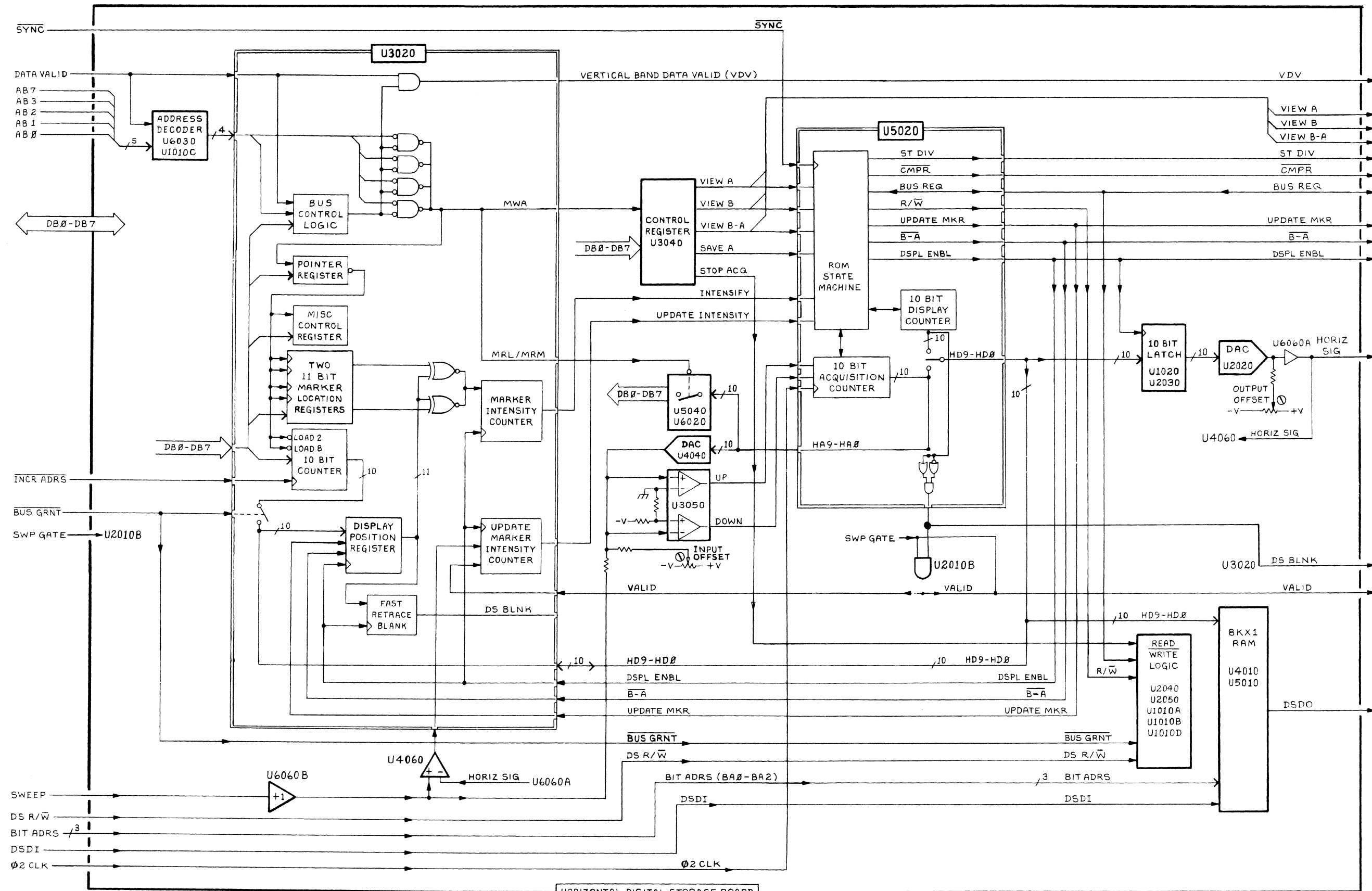
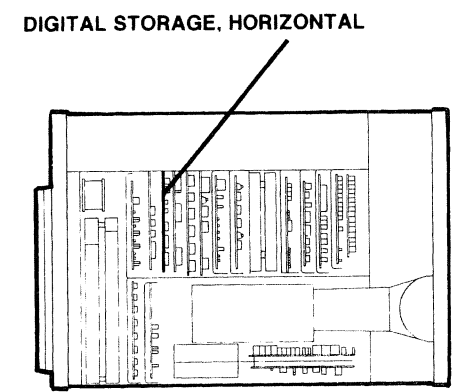
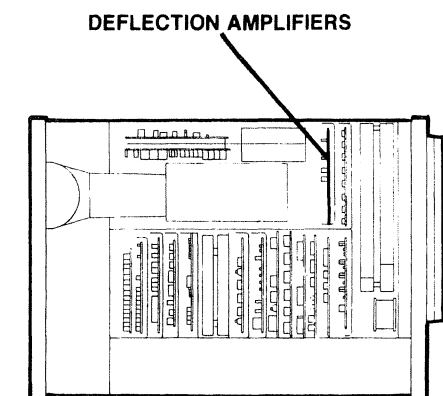


Fig. 10-38. A60—Horizontal Digital Storage circuit board.







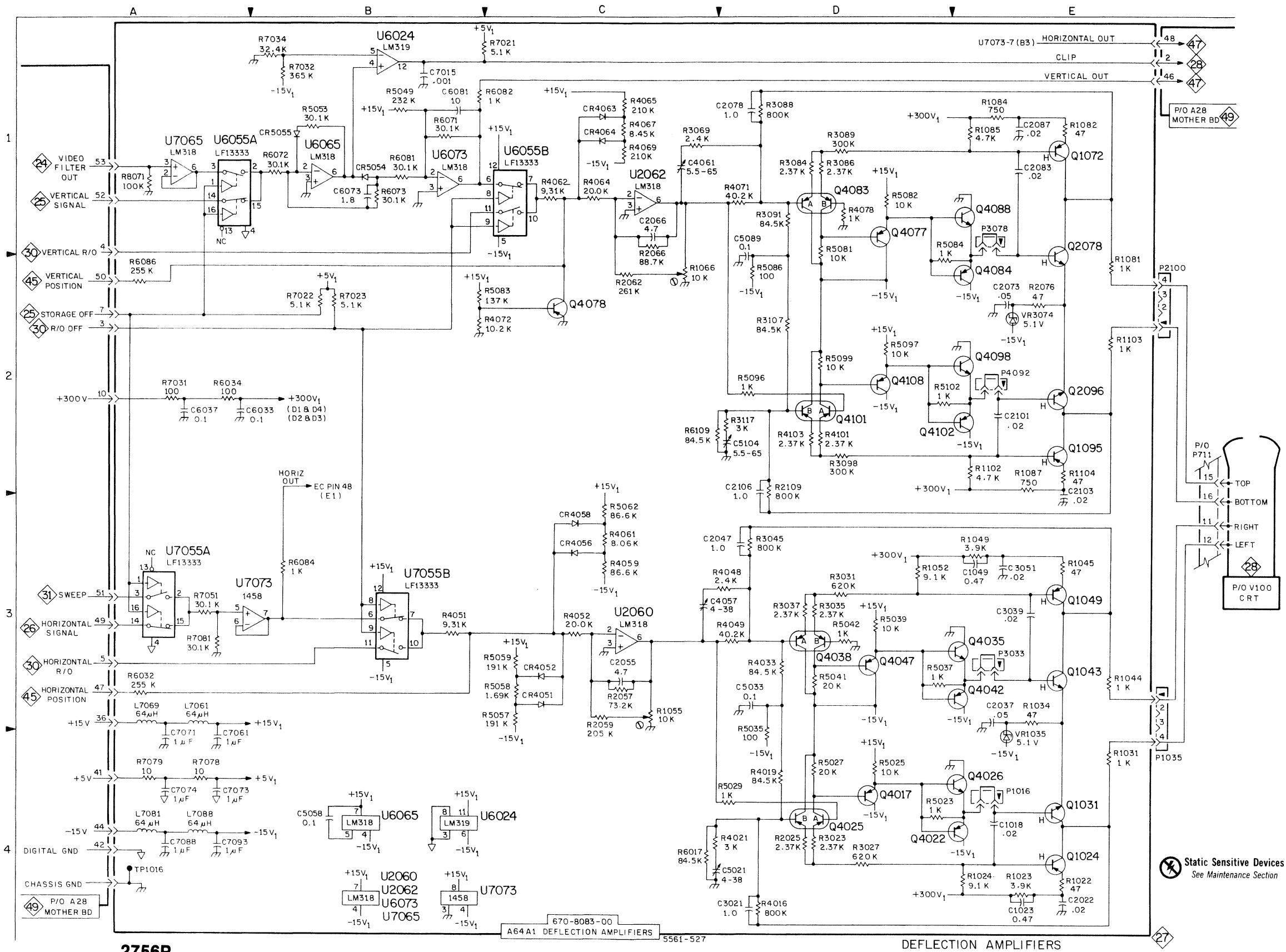
DEFLECTION AMPLIFIERS BLOCK DIAGRAM & CKT BD ILLUS

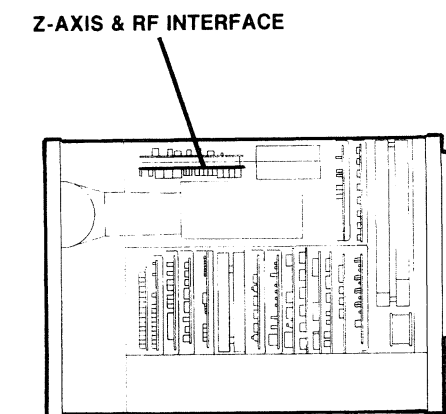
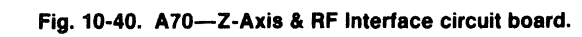
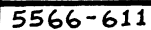


DEFLECTION AMPLIFIERS

ASSEMBLY A64A1

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C1018	E3	A1	P3033	E3	C2	R2076	E2	G1	R5083	C2	H5
C1023	E3	B1	P3078	E1	G3	R2109	D2	K2	R5084	D1	H5
C1049	E3	D1	P4092	E2	J2	R3023	D4	B3	R5086	D2	H5
C2022	E3	B2				R3027	D4	B2	R5096	D2	J5
C2037	E3	C2	Q1024	E3	B1	R3031	D3	C3	R5097	D2	J5
C2047	C3	D2	Q1031	E3	B1	R3035	D3	C3	R5099	D2	J5
C2055	C3	E2	Q1043	E3	D1	R3037	D3	C3	R5102	D2	K5
C2066	C1	F2	Q1049	E3	D1	R3045	D3	D3	R6017	C4	A6
C2073	E2	G1	Q1072	E1	G1	R3069	C1	F3	R6032	A3	C6
C2078	D1	G1	Q1095	E2	J1	R3084	D1	G3	R6034	A2	C6
C2083	E1	G1	Q2078	E1	G1	R3086	D1	H3	R6071	B1	G6
C2087	E1	H2	Q2096	E2	J2	R3088	D1	H3	R6072	B1	G6
C2101	E2	J2	Q4017	D4	A5	R3089	D1	H3	R6073	B1	G6
C2103	E2	K2	Q4022	D4	B4	R3091	D1	J3	R6081	B1	H6
C2106	D2	K2	Q4025	D4	B4	R3098	D2	J3	R6082	C1	H5
C3021	C4	B3	Q4026	E3	C4	R3107	D2	K3	R6084	B3	H6
C3039	E3	C3	Q4035	E3	C4	R3117	D2	L3	R6086	A2	H6
C3051	E3	C3	Q4038	D3	C4	R4016	D4	A4	R6109	C2	L6
C4057	C3	E3	Q4042	E3	D4	R4019	D4	A4	R7021	C1	B7
C4061	C1	F3	Q4047	D3	D4	R4021	D4	B4	R7022	B2	B7
C5021	D4	A2	Q4077	D1	G4	R4033	D3	C4	R7023	B2	B7
C5033	D3	C5	Q4078	C2	G4	R4048	C3	D4	R7031	A2	C7
C5058	B4	E5	Q4083	D1	G3	R4049	C3	D4	R7032	B1	C7
C5089	D1	J5	Q4084	E2	H4	R4051	B3	E4	R7034	B1	C7
C5104	D2	K4	Q4088	E1	H4	R4052	C3	E4	R7051	A3	F7
C6033	B2	C6	Q4098	E2	J4	R4059	C3	E4	R7078	A4	H7
C6037	A2	C6	Q4101	D2	K5	R4061	C3	E4	R7079	A4	H7
C6073	B1	G6	Q4102	D2	K6	R4062	C1	F4	R7081	A3	G7
C6081	B1	H6	Q4108	D2	K6	R4064	C1	F4	R8071	A1	G8
C7015	B1	A7				R4065	C1	F5			
C7061	A3	F7	R1022	E3	B1	R4067	C1	F5	TP1016	A4	A2
C7071	A3	G7	R1023	E3	B1	R4069	C1	F5			
C7073	A4	G7	R1024	E3	B1	R4071	D1	G4	U2060	B4	E2
C7074	A4	G7	R1031	E3	C1	R4072	C2	G4	U2062	B4	F2
C7088	A4	H7	R1034	E3	C1	R4078	D1	H4	U2062	C1	F2
C7093	A4	J7	R1044	E3	D1	R4101	D2	J4	U6024	B1	B6
			R1045	E3	D1	R4103	D2	K4	U6024	B4	B6
CR4051	C3	E4	R1049	E3	D1	R5023	D4	B5	U6055A	A1	D6
CR4052	C3	E4	R1052	D3	D1	R5025	D4	B5	U6055B	C1	D6
CR4056	C3	E4	R1055	C3	E1	R5027	D4	B5	U6065	B1	F5
CR4058	C3	E4	R1066	C2	F1	R5029	D3	B5	U6065	B4	F5
CR4063	C1	F4	R1081	E1	H1	R5035	D3	C5	U6073	B1	G5
CR4064	C1	F4	R1082	E1	H1	R5037	D3	C5	U6073	B4	G5
CR5054	B1	D4	R1084	E1	H1	R5039	D3	C5	U7055A	A3	D7
CR5055	B1	E5	R1085	E1	H1	R5041	D3	D4	U7055B	B3	D7
			R1087	E2	H1	R5042	D3	D4	U7065	A1	F6
L7061	A3	F7	R1102	E2	K1	R5049	B1	D4	U7065	B4	F6
L7069	A3	F7	R1103	E2	K1	R5053	B1	E5	U7073	A3	G6
L7081	A4	H7	R1104	E2	K1	R5057	C3	D4	U7073	B4	G6
L7088	A4	J7	R2025	D4	B2	R5058	C3	E5	U7073	E1	G6
			R2057	C3	E2	R5059	C3	E5			
P1016	E3	A1	R2059	C3	E2	R5062	C3	F5	VR1035	E3	C1
P1035	E4	C1	R2062	C2	F2	R5081	D1	H5	VR3074	E2	G3
P2100	E2	L2	R2066	C1	F2	R5082	D1	H5			

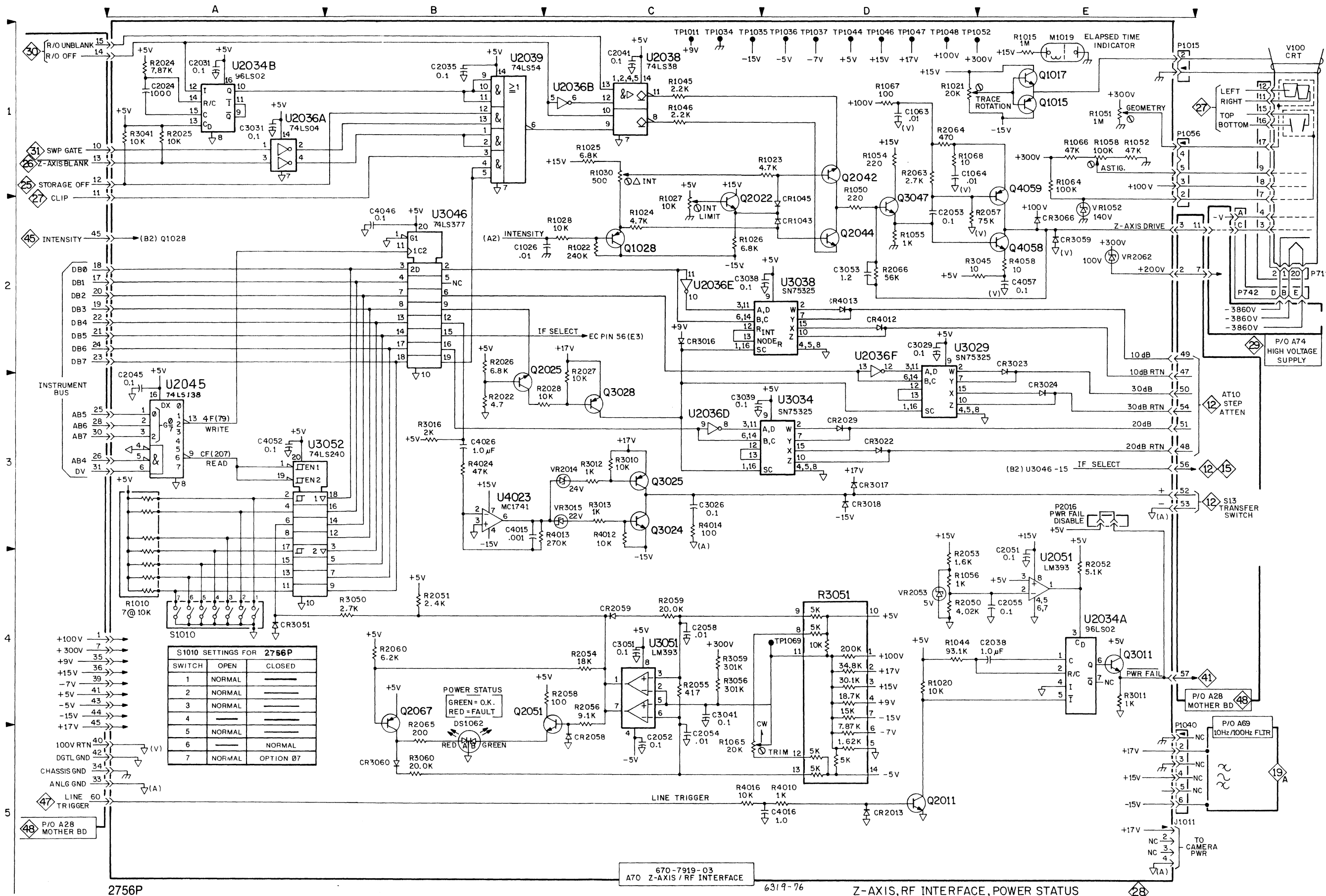




Z-AXIS, RF INTERFACE, POWER STATUS

ASSEMBLY A70

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1026	B2	B1	CR4013	D2	A4	R1051	E1	E1	R4014	C3	A4
C1063	D1	F1				R1052	E1	E1	R4016	C5	A4
C1064	D1	F1	DS1062	B4	F1	R1054	D1	E1	R4024	B3	B4
C2024	A1	B2				R1055	D2	E1	R4058	E2	E4
C2031	A1	C2	M1019	E1	A1	R1056	D4	E2			
C2035	B1	C2				R1058	E1	E1	S1010	A4	A1
C2038	E4	C2	P1011	E5	A1	R1064	E1	F1			
C2041	C1	D2	P1015	E1	B1	R1065	C5	F1	TP1011	C1	A1
C2045	A2	D3	P1040	E5	D1	R1066	E1	F1	TP1034	C1	C1
C2051	E4	E2	P1056	E1	E1	R1067	D1	F1	TP1035	C1	C1
C2052	C5	E2	P2016	E5	B2	R1068	D1	F1	TP1036	D1	C1
C2053	D2	F2				R2022	B3	B2	TP1037	D1	C1
C2054	C5	E2	Q1015	E1	A1	R2024	A1	B2	TP1044	D1	D1
C2055	E4	E2	Q1017	E1	A1	R2025	A1	B2	TP1046	D1	D1
C2058	C4	E3	Q1028	A2	B1	R2026	B2	B2	TP1047	D1	D1
C3026	C3	B2	Q1028	C2	B1	R2027	C2	B2	TP1048	D1	D1
C3029	D2	B2	Q2011	D5	A2	R2028	B3	B2	TP1052	D1	E1
C3031	A1	C3	Q2022	C1	B1	R2050	D4	E2	TP1068	C3	F1
C3038	C2	C3	Q2025	B2	B2	R2051	B4	E2	TP1069	D4	F1
C3039	C3	C3	Q2042	D1	D2	R2052	E4	E2			
C3041	C4	D3	Q2044	D2	D2	R2053	D4	E2	U2034A	E4	C1
C3051	C4	D3	Q2059	B4	F2	R2054	C4	E2	U2034B	A1	C1
C3053	D2	F2	Q2067	B4	F2	R2055	C4	E2	U2036A	A1	C2
C4015	B3	A4	Q3011	E4	A2	R2056	C4	E2	U2036B	C1	C2
C4016	D5	A4	Q3024	C3	B2	R2057	E2	F2	U2036D	C3	C2
C4026	B3	B4	Q3025	C3	B2	R2058	C4	E2	U2036E	C2	C2
C4046	B2	D4	Q3028	C3	B2	R2059	C4	E2	U2036F	D2	C2
C4052	A3	D4	Q3047	D1	F2	R2060	B4	F2	U2038	C1	D1
C4057	E2	E4	Q4058	E2	F3	R2063	D1	F2	U2039	B1	D2
			Q4059	E1	F3	R2064	D1	F2	U2045	A3	D2
						R2065	B4	F2	U2051	E4	E2
CR1043	D2	D1				R2066	D2	F2	U3029	D2	B2
CR1045	D1	D1	R1010	A4	A1	R3010	C3	A3	U3034	D3	C3
CR2013	D5	A2	R1015	E1	A1	R3011	E5	A2	U3038	D2	D3
CR2029	D3	B2	R1020	D4	B1	R3012	C3	A3	U3046	B2	D3
CR2058	C5	F2	R1021	D1	B1	R3013	C3	A3	U3046	E3	D3
CR2059	C4	E2	R1022	C2	B1	R3016	B3	A3	U3051	C4	E3
CR3016	C2	A3	R1023	D1	B1	R3041	A1	D3	U3052	A3	E3
CR3017	D3	A3	R1024	C2	B1	R3045	D2	E3	U4023	B3	B4
CR3018	D3	A3	R1025	C1	B1	R3050	B4	E3			
CR3022	D3	B2	R1026	C2	B1	R3051	D4	E3	VR1052	E2	E1
CR3023	E2	B2	R1027	C1	B1	R3056	C4	E3	VR2014	C3	A3
CR3024	E2	B2	R1028	C2	B1	R3059	C4	E3	VR2053	D4	E2
CR3051	A4	E3	R1030	C1	C1	R4010	D5	A4	VR2062	E2	F2
CR3059	E2	F3	R1044	D4	D1	R4012	C3	A4	VR3015	C3	A3
CR3060	B5	F3	R1045	C1	D1						
CR3066	E2	F3	R1046	C1	D1						
CR4012	D2	A4	R1050	D1	E1						



Z-AXIS, RF INTERFACE & POWER STATUS

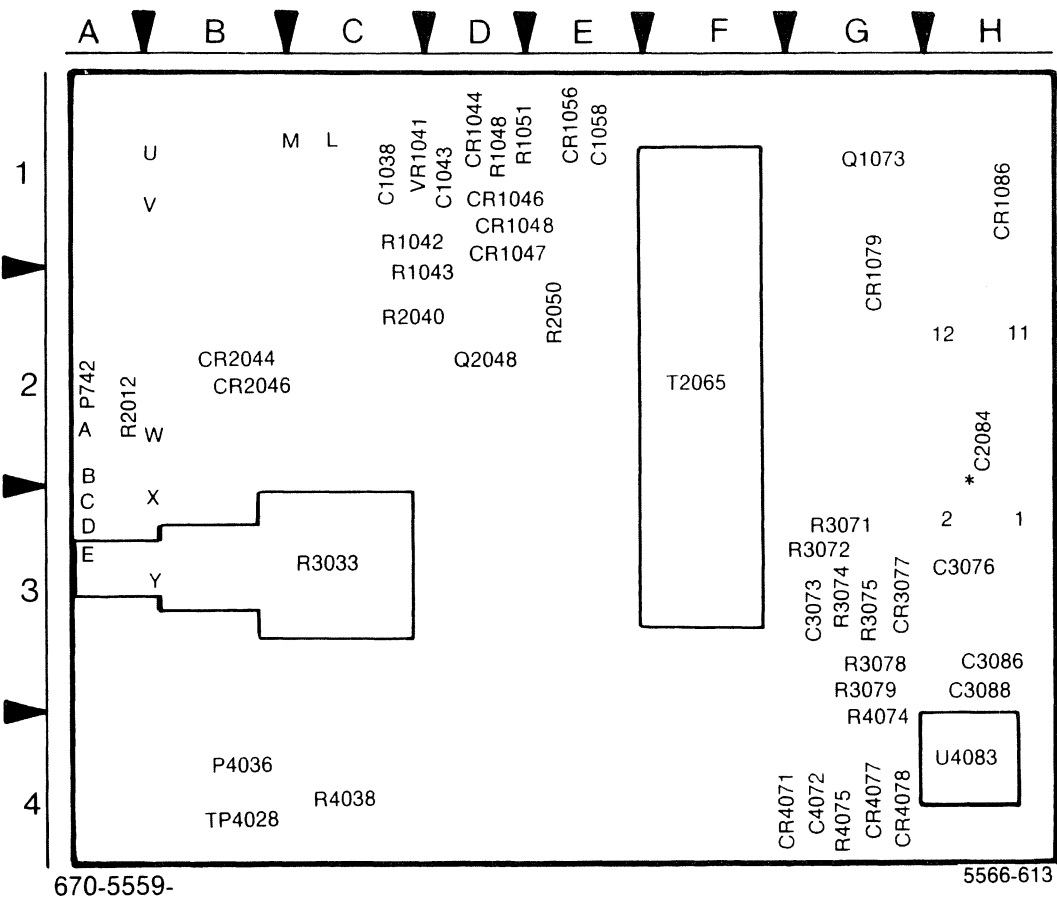
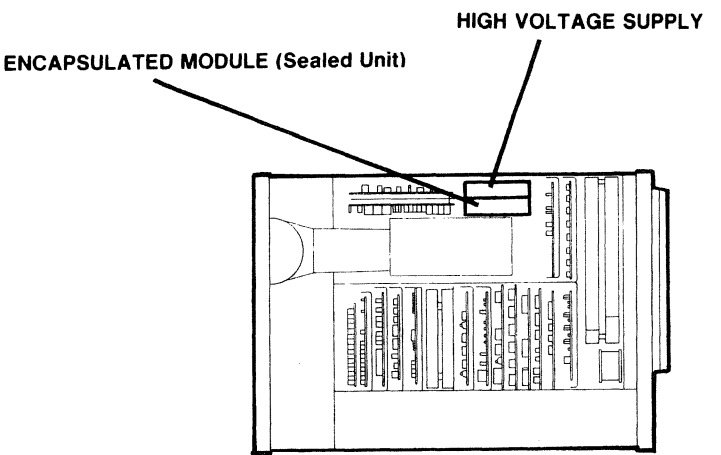


Fig. 10-41. A74—High Voltage circuit board.

* MOUNTED ON
REAR OF BOARD



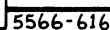
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 **Static Sensitive Devices**
See Maintenance Section

HIGH VOLTAGE SUPPLY

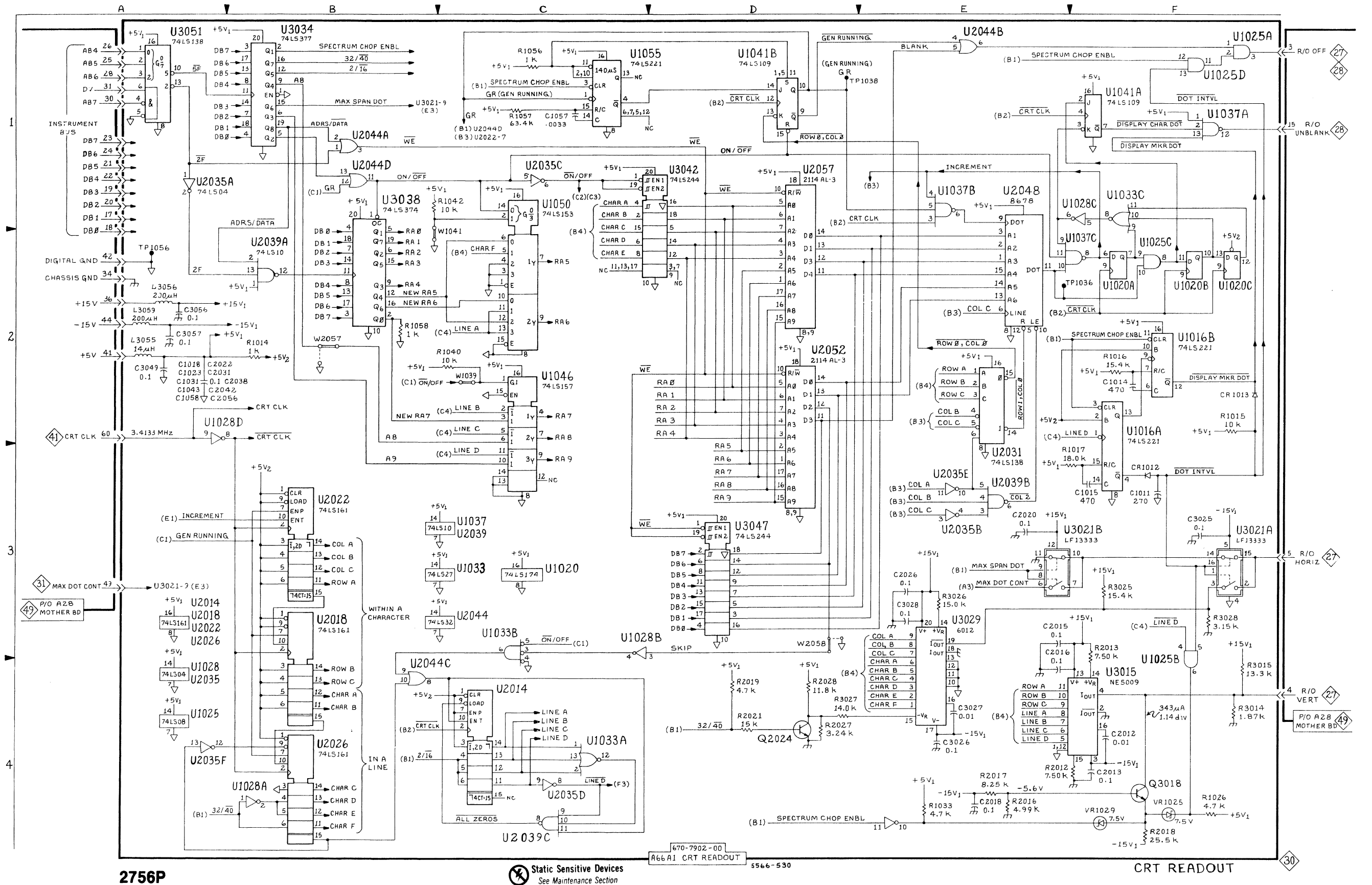
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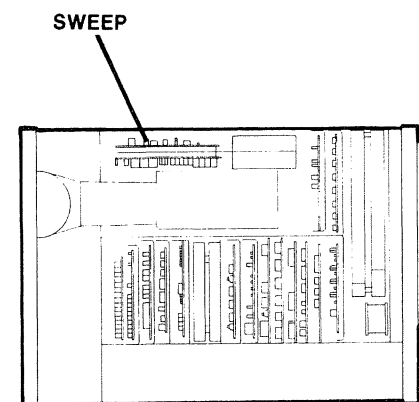
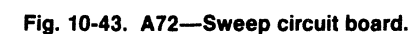
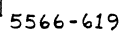


CRT READOUT

ASSEMBLY A66A1

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1011	F3	A1	R1057	C1	E1	U1050	C1	D1
C1014	F2	A1	R1058	B2	E1	U1055	C1	E1
C1015	F3	A1	R2012	E4	A2	U2014	A3	A2
C1018	A2	A1	R2013	F3	A2	U2014	C4	A2
C1023	A2	B1	R2016	E4	A2	U2018	A3	A2
C1031	A2	C1	R2019	F4	A2	U2018	B3	A2
C1043	A2	D1	R2019	F4	A2	U2022	A3	B2
C1057	C1	E1	R2021	D4	A2	U2026	B3	B2
C1058	A2	E1	R2027	D4	B2	U2026	B4	B2
C2012	F4	A2	R2027	D4	B2	U2031	E2	C2
C2013	F4	A2	R3014	F4	A3	U2035B	E3	C2
C2015	E3	A2	R3015	F4	A3	U2035C	C1	C2
C2016	E3	A2	R3015	F4	A3	U2035D	C4	C2
C2018	E4	A2	R3025	F3	B3	U2035E	C3	C2
C2020	E3	A2	R3026	E3	B3	U2035F	A4	C2
C2022	A2	B2	R3027	D4	B3	U2035	A1	C2
C2026	E3	B2	R3028	F3	B3	U2035	A4	C2
C2031	A2	C2						
C2038	A2	C2	TP1036	F2	C1	U2039B	E3	C2
C2042	A2	D2	TP1038	D1	C1	U2039C	C4	C2
C2056	A2	E2	TP1056	A2	E1	U2039	B2	C2
C3025	F3	B3				U2039	C3	C2
C3026	E4	B3	U1016A	F2	A1	U2044A	B1	D2
C3027	E4	B3	U1016B	F2	A1	U2044B	E1	D2
C3028	E3	B3	U1020A	F2	B1	U2044C	B4	D2
C3049	A2	D3	U1020B	F2	B1	U2044D	B4	D2
C3056	A2	E3	U1020C	F2	B1	U2044	C3	D2
C3057	A2	E3	U1020D	F2	B1	U2044	E1	D2
CR1012	F3	A1	U1025A	F1	B1	U2048	D2	E2
CR1013	F2	A1	U1025B	F4	B1	U2052	D2	E2
			U1025C	F1	B1	U2057	D1	E2
			U1025D	F1	B1	U3015	F4	A3
L3055	A2	E3	U1025E	A4	B1	U3021A	F3	B3
L3056	A2	E3	U1028A	B4	B1	U3021B	F3	B3
L3059	A2	E3	U1028B	C3	B1	U3029	E3	B3
Q2024	D4	B2	U1028C	F1	B1	U3034	B1	C3
Q3018	F4	A3	U1033A	C4	C1	U3038	B1	C3
			U1033B	C3	C1	U3042	D1	D3
R1014	B2	A1	U1033C	F1	C1	U3047	D3	D3
R1015	F2	A1	U1037	C3	C1	U3051	A1	E3
R1016	F2	A1	U1037A	F1	C1	VR1025	F4	B1
R1017	F2	A1	U1037B	E1	C1	VR1029	F4	B1
R1026	F4	B1	U1037C	F1	C1			
R1033	E4	C1	U1037	C3	C1	W1039	C2	C1
R1040	C2	C1	U1041A	F1	D1	W1041	C1	D1
R1042	C1	D1	U1041B	D1	D1	W2057	B2	E2
R1056	C1	E1	U1046	C2	D1	W2058	D3	E2

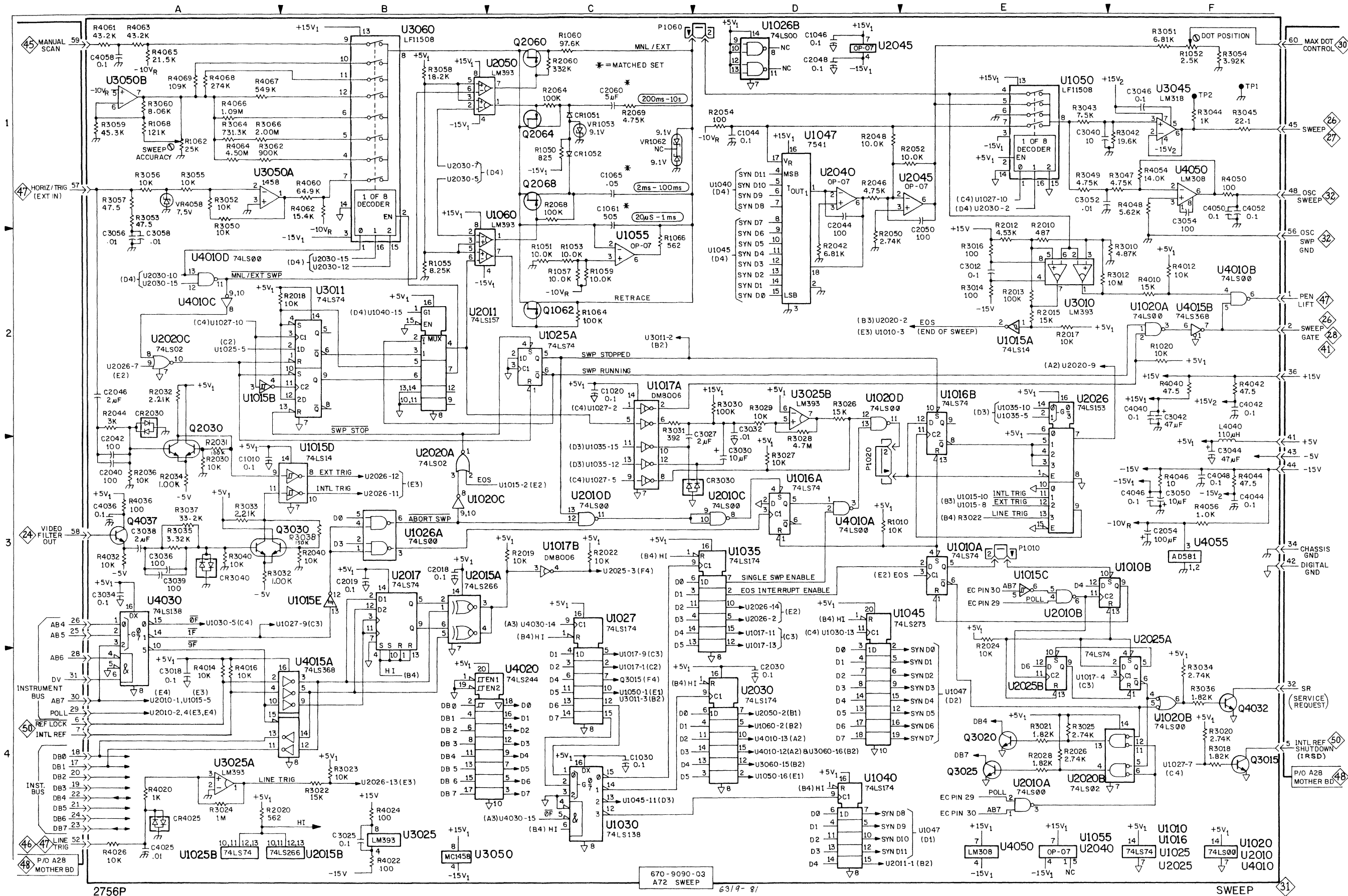


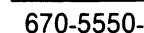
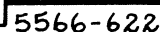


ASSEMBLY A72

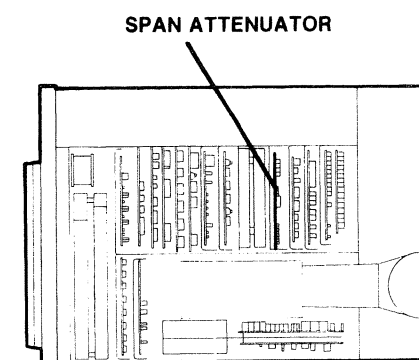
CIRCUIT NUMBER	SCHEM	BOARD LOCATION	CIRCUIT NUMBER	SCHEM	BOARD LOCATION	CIRCUIT NUMBER	SCHEM	BOARD LOCATION	CIRCUIT NUMBER	SCHEM	BOARD LOCATION
C1010	A3	A1	R1060	C1	F1	R4022	B4	B3	U1050	E1	E1
C1020	C2	B1	R1062	A1	F1	R4024	B4	B3	U1055	C2	E1
C1030	C4	C1	R1064	C2	F1	R4026	B4	B4	U1055	E4	E1
C1044	D1	D1	R1066	C2	F1	R4032	A3	C3	U1060	B1	F1
C1046	D1	D1	R1068	A1	F1	R4036	A3	C4			
C1061	C1	F1	R2010	E1	A3	R4040	F2	C4			
C1065	C1	F2	R2012	E1	A3	R4042	F2	D4			
C2018	B3	A2	R2013	E2	A2	R4044	F3	D4	U2010A	E4	A2
C2019	B3	B2	R2015	E2	A2	R4046	F3	D4	U2010B	E3	A2
C2030	D4	C2	R2017	E2	A2	R4048	F1	D4	U2010C	D3	A2
C2040	A3	C2	R2018	B2	A2	R4050	F1	E4	U2010D	C3	A2
C2042	A3	C2	R2019	C3	B2	R4054	F1	E4			
C2044	D1	D2	R2020	A4	B2	R4056	F3	E3			
C2046	A2	D2	R2022	C3	B2	R4060	B1	F3	U2010	F4	A2
C2048	D1	D2	R2024	E3	B2	R4061	A1	F4	U2011	B2	A2
C2050	E1	E2	R2026	E4	B2	R4062	B1	F3			
C2054	F3	E2	R2028	E4	B2	R4063	A1	F4	U2015A	B3	B2
C2060	C1	F2	R2030	A3	C2	R4064	A1	F3	U2015B	B4	B2
C3012	E2	A3	R2032	A2	C2	R4065	A1	F4	U2017	B3	B3
C3018	A4	A3	R2031	A3		R4066	A1	F3	U2020A	B3	B2
C3025	B4	B3	R2034	A3	C3	R4067	A1	F4	U2020B	E4	B2
C3027	D2	B3	R2036	A3	C2	R4068	A1	F4	U2020C	A2	B2
C3030	D3	C3	R2040	B3	C2	R4069	A1	F4			
C3032	D2	C3	R2042	A2	D2						
C3034	A3	C3	R2044	A2	D2	U1010B	F3	A1	U2025A	F3	B3
C3036	A3	C3	R2046	D1	D2	U1010A	E3	A1	U2025B	E4	B3
C3036	A3	C3	R2048	D1	D2	U1010	F4	A1	U2025	F4	B3
C3039	A3	C3	R2050	D1	D2	U1015A	E2	A1			
C3039	A3	C3	R2052	E1	E2	U1015B	A2	A1			
C3040	E1	D3	R2054	D1	E2	U1015C	E3	A1			
C3042	F2	D3	R2060	C1	F2	U1015D	B3	A1			
C3044	F3	D3	R2064	C1	F2	U1015E	B3	A1			
C3046	F1	D3	R2068	C1	F2						
C3050	F3	D3	R2069	C1	F2						
C3052	E1	D3	R3010	F2	A3	U1016A	D3	A1	U2026	E2	C2
C3054	F1	E3	R3012	F2	A3	U1016B	E2	A1			
C3056	A2	E3	R3014	E2	A3	U1016	F4	A1			
C3058	A2	E3	R3016	E2	A3	U1017A	C2	A1			
C4025	A4	B4	R3018	F4	A3	U1017B	C3	A1			
C4036	A3	C4	R3020	F4	B3						
C4040	F2	C4	R3021	E4	B3						
C4042	F2	D4	R3022	B4	B3						
C4044	F3	D4	R3023	B4	B3						
C4046	F3	D4	R3024	A4	B3						
C4048	F3	D4	R3025	E4	B3						
C4050	F1	E4	R3026	D2	B3	U1020A	F2	B1	U2040	D1	D2
C4052	F1	E4	R3027	D3	B3	U1020B	F4	B1	U2045	D1	D2
C4058	A1	E4	R3028	D3	B3	U1020C	B3	B1	U2045	E1	D2
			R3029	D2	B3	U1020D	D2	B1	U2050	B1	E2
CR1051	C1	E1	R3030	D2	C3	U1020E	F4	B1			
CR1052	C1	E1	R3031	D2	C3	U1025A	C2	B2			
CR2030	A2	C2	R3032	A3	C3	U1025B	A4	B2			
CR3030	D3	C3	R3033	A3	C3	U1025	F4	B2			
CR3040	A3	C3	R3034	F4	C3	U1026A	B3	B1	U3025A	A4	B3
CR4025	A4	B4	R3035	A3	C3	U1026B	D1	B1	U3025B	D2	B3
			R3036	F4	C3				U3025	B4	B3
L4040	F2	D4	R3037	A3	C3				U3045	F1	D3
P1010	E3	A1	R3038	A3	C3				U3050A	A1	E3
P1020	D3	A1	R3040	A3	D3	U1027	C3	B2	U3050B	A1	E3
P1060	C1	F1	R3042	F1	D3				U3060	B1	F3
			R3043	E1	D3						
Q1062	C2	F1	R3044	F1	D3						
Q2030	A2	C2	R3045	F1	D3						
Q2060	C1	F3	R3047	F1	D3						
Q2064	C1	F3	R3049	E1	D3						
Q2068	C1	F3	R3050	A1	E3						
Q3015	C4	A3	R3051	F1	F1						
Q3020	E4	B3	R3052	A1	E3						
Q3025	E4	B3	R3053	A1	E3						
Q3030	B3	C3	R3054	F1	E1						
Q4032	F4	C4	R3055	A1	E3						
Q4037	A3	C4	R3056	A1	E3						
			R3057	A1	E3						
			R3058	B1	E3						
R1010	D3	A1	R3059	A1	E3						
R1020	F2	B1	R3060	A1	F3						
R1050	C1	E1	R3062	A1	F3						
R1051	C2	E1	R3064	A1	F3						
R1052	F1	E1	R3066	A1	F3						
R1053	C2	E1	R4010	F2	A3						
R1055	B2	E1	R4012	F2	A4						
R1057	C2	E1	R4014	A4	A4						
R1059	C2	E1	R4016	A4	A4						
			R4020	A4	B4						

* On back of board





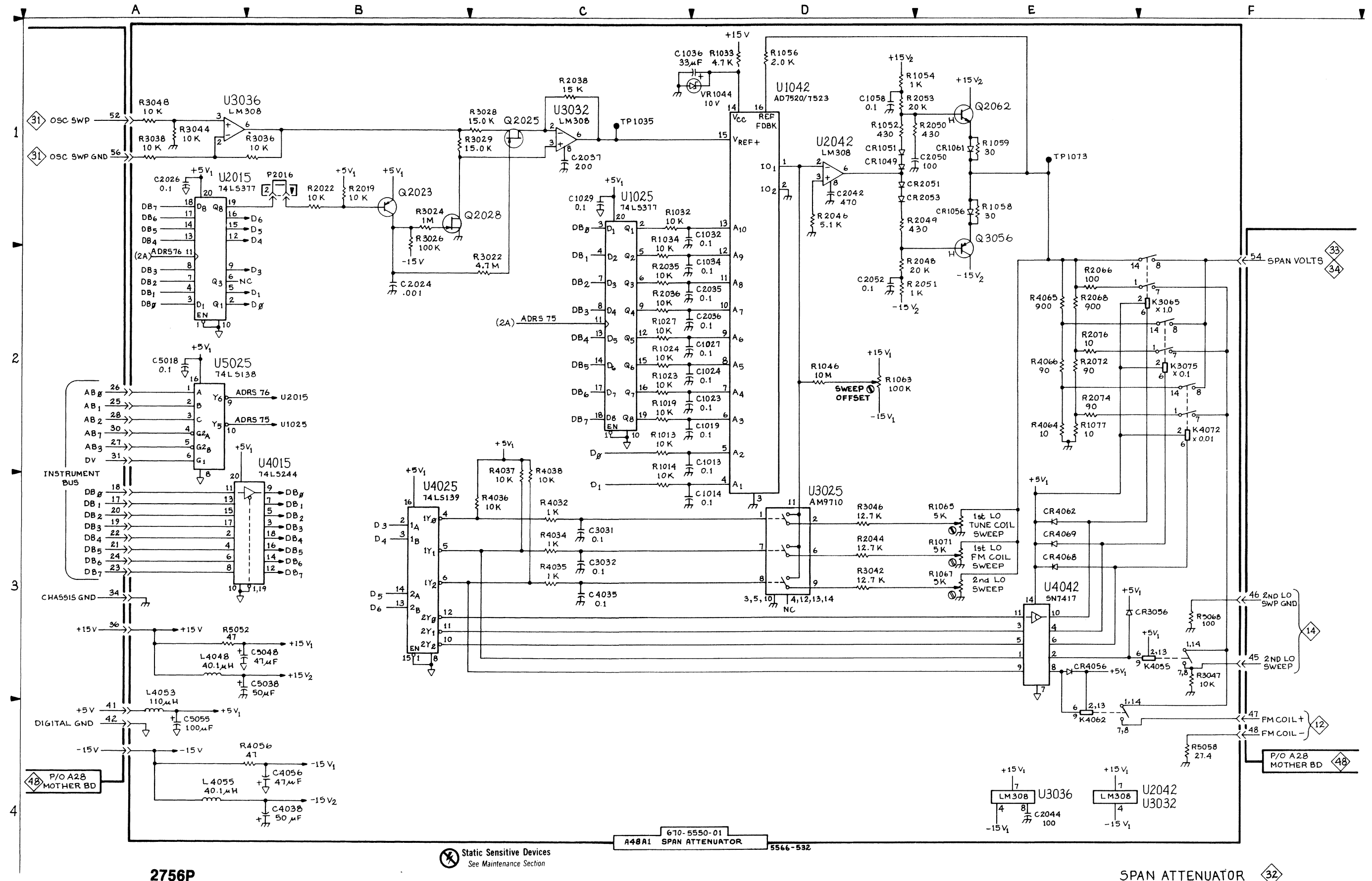
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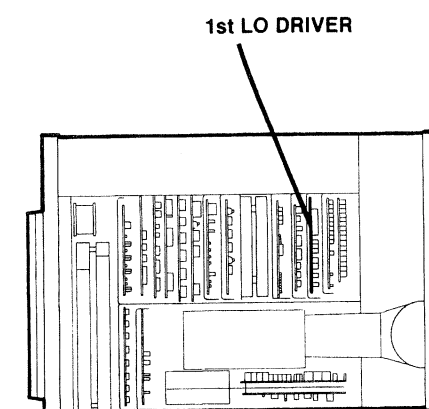
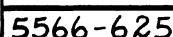


SPAN ATTENUATOR

ASSEMBLY A48A1

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1013	D2	A1	L4048	A3	D4	R2076	E2	G3
C1014	D3	A1	L4053	A3	D4	R3022	C2	B3
C1019	D2	A1	L4055	A4	E4	R3024	B1	B3
C1023	D2	A1				R3026	B1	B3
C1024	D2	B2	P2016	B1	A2	R3029	C1	B3
C1027	D2	B1				R3036	B1	C3
C1029	C1	B1	Q2023	B1	B3	R3038	A1	C3
C1032	D1	B1	Q2025	C1	B2	R3038	C1	C3
C1034	D2	C1	Q2028	C1	B2	R3042	D3	C3
C1036	C1	C1	Q2062	E1	F2	R3044	A1	D3
C1058	D1	E1	Q3056	E1	E3	R3046	D3	D3
C2024	B2	B2				R3047	F3	D3
C2026	A1	B2	R1013	C2	A2	R3048	A1	D3
C2035	D2	C2	R1014	C2	A2	R4032	C3	C4
C2036	D2	C2	R1019	C2	A1	R4034	C3	C4
C2037	C1	C2	R1023	C2	B1	R4035	C3	C4
C2042	D1	D2	R1024	C2	B1	R4036	C3	B4
C2044	E4	D2	R1027	C2	B1	R4037	C2	B4
C2050	E1	E2	R1032	C1	C1	R4038	C2	C4
C2052	D2	E2	R1033	D1	C1	R4056	B4	E5
C3031	C3	C4	R1034	C1	C1	R4064	E2	F5
C3032	C3	C4	R1046	D2	D1	R4065	E2	G2
C4035	C3	C4	R1052	D1	E1	R4066	E2	F3
C4038	B4	C4	R1054	E1	E1	R5052	A3	D4
C4056	B4	E4	R1056	D1	E1	R5058	F4	E5
C5018	A2	A5	R1058	E1	E1	R5068	F3	F5
C5038	B3	C5	R1059	E1	E1			
C5048	B3	D4	R1063	D2	F1	TP1035	C1	C1
C5055	A4	E5	R1065	E3	F1	TP1073	E1	G2
			R1067	E3	F1			
CR1049	D1	D1	R1071	E3	F1	U1025	B2	B2
CR1051	D1	E1	R1077	E2	G2	U1025	C1	B2
CR1056	E1	E1	R2019	B1	B2	U1042	D1	D1
CR1061	E1	F1	R2022	B1	A2	U2015	A1	A2
CR2051	E1	E1	R2035	C2	C2	U2015	B2	A2
CR2053	E1	E2	R2036	C2	C2	U2042	D1	D2
CR3056	F3	E3	R2038	C1	C2	U2042	F4	D2
CR4056	E3	E4	R2044	D3	D3	U3025	D3	B3
CR4062	E3	F3	R2046	D1	D2	U3032	C1	C2
CR4068	E3	F5	R2048	E2	D2	U3032	F4	C2
CR4069	E3	G4	R2049	E1	E2	U3036	A1	C3
			R2050	E1	E2	U3036	E4	C3
K3065	F2	F3	R2051	E2	E2	U4015	B2	A4
K3075	F2	G4	R2053	E1	E2	U4025	B3	B4
K4055	F3	E4	R2066	E2	F2	U4042	E3	D4
K4062	E4	F5	R2068	E2	G3	U5025	A2	B5
K4072	F2	G5	R2072	E2	G3			
			R2074	E2	G3	VR1044	D1	D1





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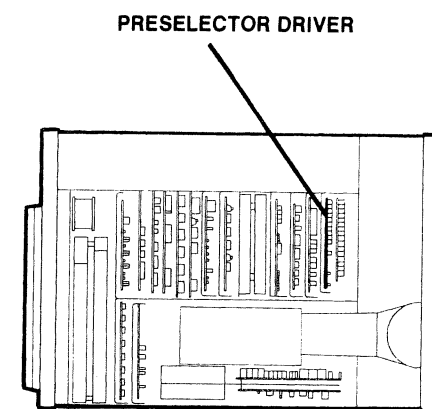
33

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Fig. 10-46. A42A1—Preselector Driver circuit board.

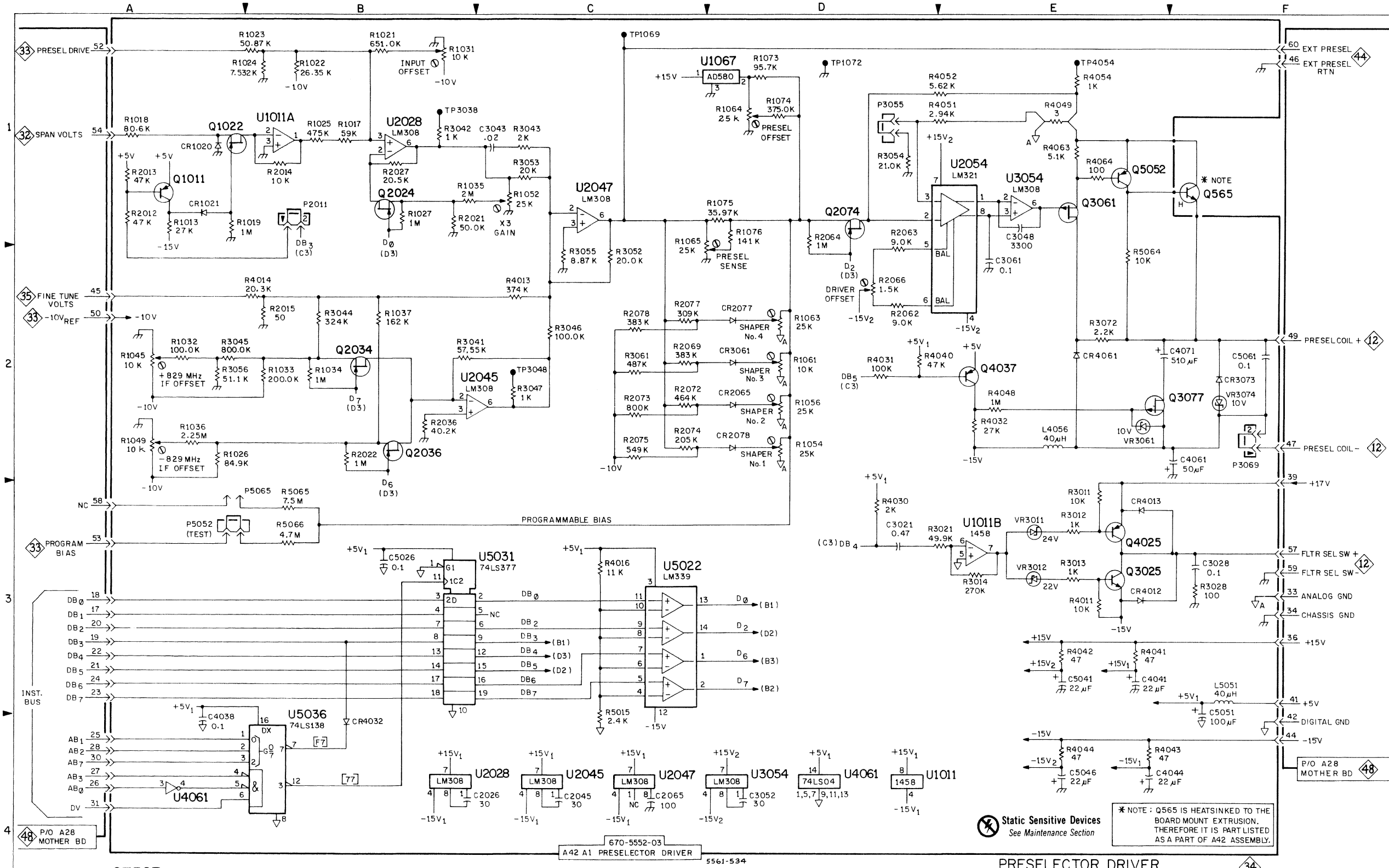


PRESELECTOR DRIVER

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ASSEMBLY A42A1

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C2026	C4	C2	Q2036	B2	C2	R2022	B2	C2	R4044	E4	D4
C2045	C4	D2	Q2074	D1	G2	R2027	B1	B2	R4048	E2	D4
C2065	C4	F3	Q3025	E3	A2	R2036	B2	D2	R4049	E1	D4
C3021	D3	B2	Q3061	E1	F3	R2062	D2	F2	R4051	E1	E4
C3028	F3	B3	Q3077	F2	G3	R2063	D1	F3	R4052	E1	E4
C3043	C1	D2	Q4025	E3	B3	R2064	D1	F2	R4054	E1	E4
C3048	E1	E3	Q4037	E2	C4	R2066	D2	F2	R4063	E1	F4
C3052	D4	E3	Q5052	E1	E5	R2069	C2	F2	R4064	E1	F4
C3061	E2	E3				R2072	C2	G2	R5015	C4	A4
C4038	A4	C4	R1013	A1	B1	R2073	C2	G3	R5064	E2	F5
C4041	E3	D4	R1017	B1	A1	R2074	C2	G3	R5065	B3	G2
C4044	E4	D4	R1018	A1	A1	R2075	C2	G3	R5066	B3	F3
C4061	F2	F4	R1019	B1	A1	R2077	C2	G2			
C4071	F2	G4	R1021	B1	C1	R2078	C2	G2	TP1069	C1	G1
C5026	B3	B5	R1022	B1	C1	R3011	E3	A2	TP1072	D1	G1
C5041	E3	D5	R1023	B1	B1	R3012	E3	A2	TP3038	B1	C3
C5046	E4	D5	R1024	B1	C1	R3013	E3	A2	TP3048	C2	C3
C5051	F4	E5	R1025	B1	C1	R3014	E3	A2	TP4054	E1	E4
C5061	F2	E4	R1026	A2	C1	R3021	D3	B2			
			R1027	B1	C1	R3028	F3	C3	U1011A	B1	A2
			R1031	B1	C1	R3041	C2	D2	U1011B	E3	A2
			R1032	A2	D1	R3042	B1	D2	U1011	D4	A2
			R1033	B2	D1	R3043	C1	D2	U1067	D1	G2
			R1034	B2	D1	R3044	B2	D2	U2028	B1	C2
			R1035	B1	D1	R3045	A2	D2	U2028	C4	C2
			R1036	A2	D1	R3046	C2	D2	U2045	C2	D2
			R1037	B2	D1	R3047	C2	D2	U2045	C4	D2
			R1045	A2	D1	R3052	C2	E2	U2047	C1	E2
			R1049	A2	D1	R3053	C1	E3	U2047	C4	E2
			R1052	C1	E1	R3054	D1	E3	U2054	E1	E2
			R1054	D2	E1	R3055	C2	E3	U3054	D4	E3
			R1056	D2	E1	R3056	A2	E3	U3054	E1	E3
			R1061	D2	F1	R3061	C2	F3	U4061	A4	A3
			R1063	D2	F1	R3072	E2	G3	U4061	D4	A3
			R1064	D1	F1	R4011	E3	A2	U5022	C3	B5
			R1065	C2	F1	R4013	C2	A4	U5031	C3	C4
			R1073	D1	G1	R4014	B2	A4	U5036	B4	C5
			R1074	D1	G1	R4016	C3	A4			
			R1075	D1	G1	R4030	D3	B4	VR3011	E3	A2
			R1076	D1	F3	R4031	D2	C3	VR3012	E3	A2
			R2012	A1	A1	R4032	E2	C3	VR3061	E2	F3
			R2013	A1	B1	R4040	D2	D4	VR3074	F2	G3
			R2014	B1	A2	R4041	E3	D4			
			R2015	B2	A1	R4042	E3	D4			
			R2021	B1	B1	R4043	E4	D4			



2756P

A42 A1 PRESELECTOR DRIVER

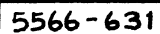
5561-534

PRESELECTOR DRIVER

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PRESELECTOR DRIVER

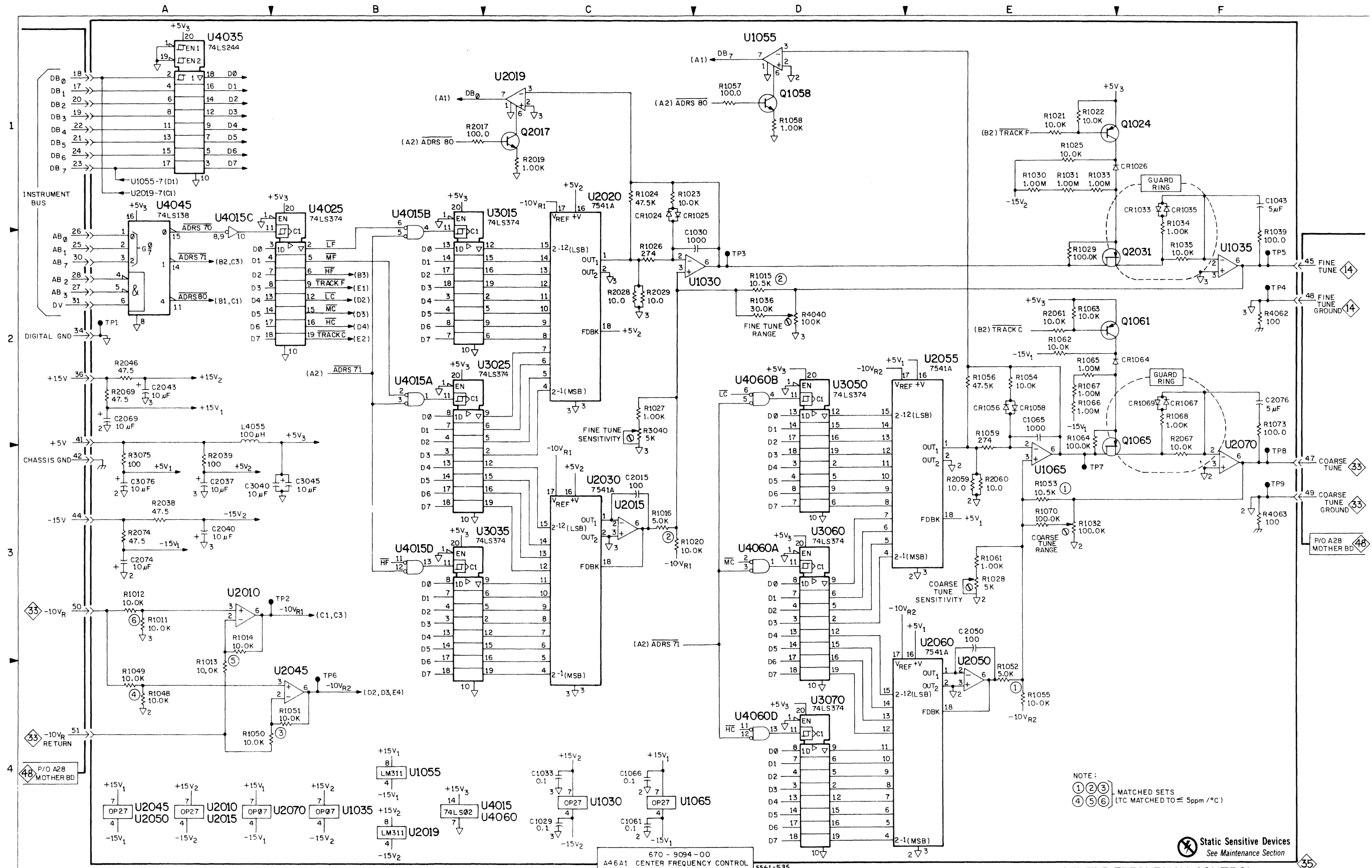
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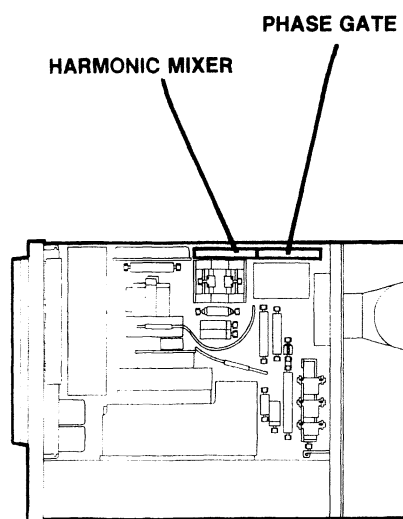


CENTER FREQUENCY CONTROL

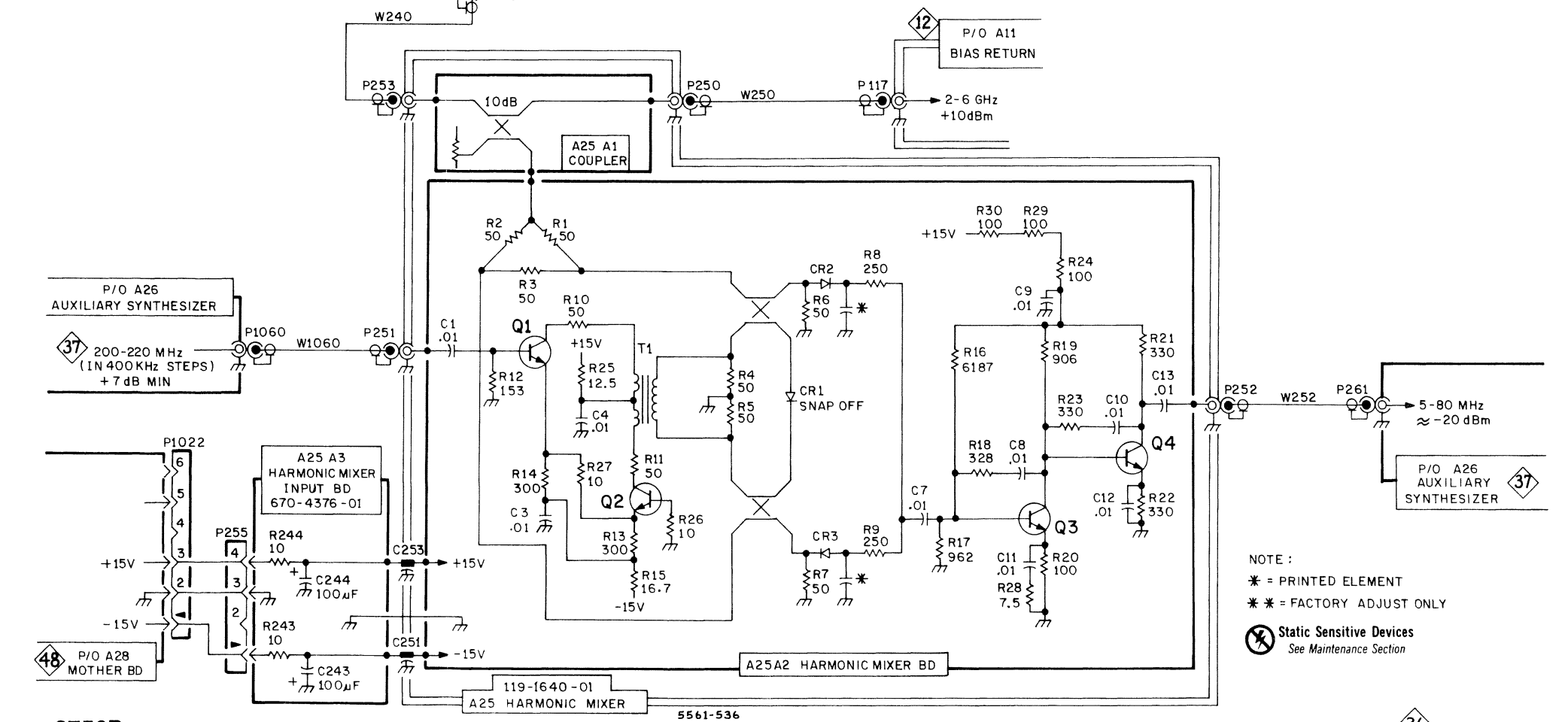
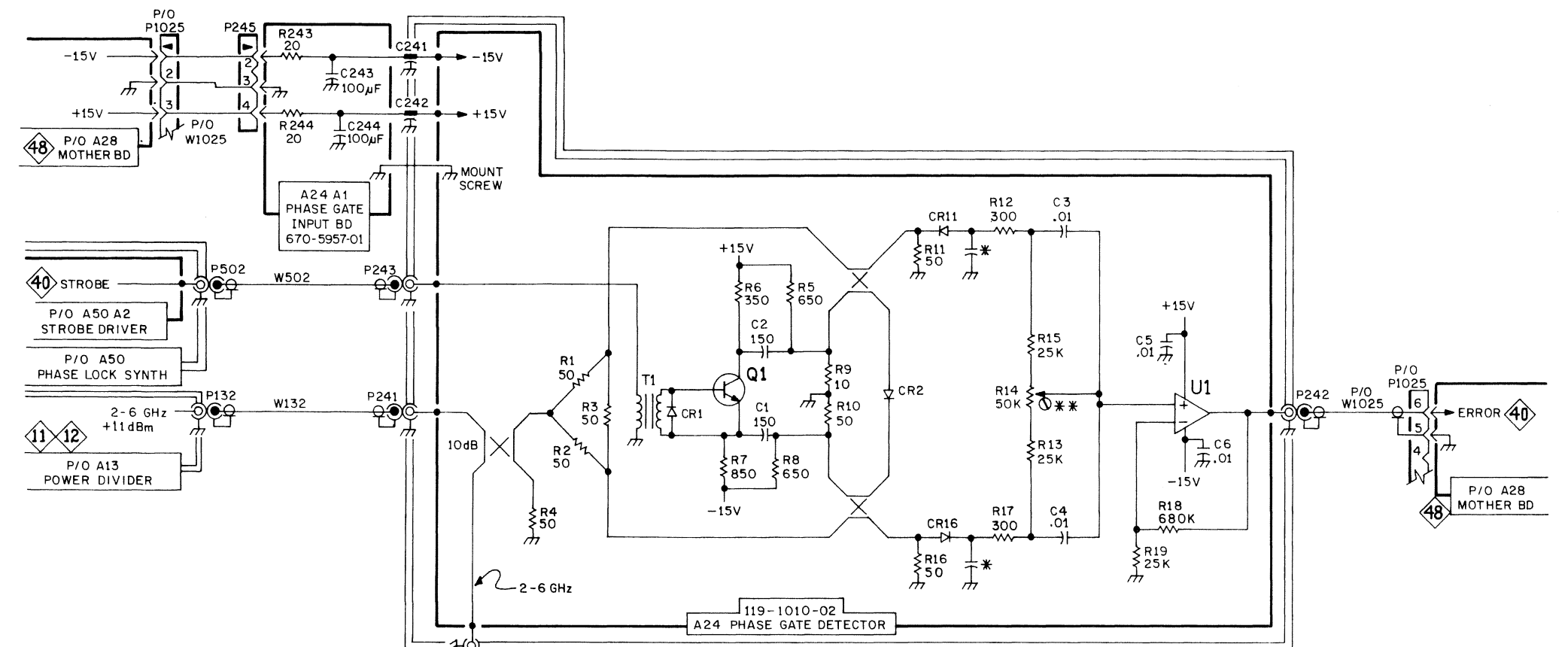
ASSEMBLY A46A1

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1029	C4	B1	R1024	C1	B1	R3040	C2	A1
C1030	C2	C1	R1025	E1	B1	R3075	A3	G3
C1033	C4	C1	R1026	C2	B1	R4040	D2	C1
C1043	F1	D1	R1027	C2	B1	R4062	F2	G4
C1061	C4	F1	R1028	E3	D1	R4063	F3	G4
C1065	E2	F1	R1029	E2	B1			
C1066	C4	F1	R1030	E1	B1	U1030	C4	B1
C2015	C3	A2	R1031	E1	C1	U1030	D2	B1
C2037	A3	C2	R1032	E3	G1	U1035	B4	C1
C2040	A3	D2	R1033	F1	C1	U1035	F2	C1
C2043	A2	D2	R1034	E1	C1	U1055	B4	E2
C2050	E3	D2	R1035	F2	C1	U1055	D1	E2
C2069	A2	G2	R1036	D2	C1	U1065	C4	F1
C2074	A3	G2	R1039	F2	C1	U1065	E3	F1
C2076	F2	G1	R1048	A4	D1	U2010	A3	A2
C3040	A3	D3	R1049	A4	D1	U2010	A4	A2
C3045	B3	D3	R1050	A4	D1	U2015	A4	A2
C3076	A3	G3	R1051	B4	E1	U2015	C3	A2
			R1052	E4	E1	U2019	B4	A2
			R1053	E3	E1	U2019	C1	A2
CR1024	C1	B1	R1054	E2	E1	U2020	C1	B2
CR1025	C1	B1	R1055	E4	E1	U2030	C3	C2
CR1026	F1	B1	R1056	E2	E1	U2045	A4	D2
CR1033	F1	C1	R1057	D1	E1	U2045	B4	D2
CR1035	F1	C1	R1058	E1	E1	U2050	A4	D2
CR1056	E2	E1	R1059	E2	E1	U2055	E2	E2
CR1058	E2	E1	R1061	E3	F1	U2060	E3	F2
CR1064	F2	F1	R1062	E2	F1	U2070	B4	G2
CR1067	F2	G1	R1063	E2	F1	U2070	C1	G2
CR1069	F2	G2	R1064	E2	F1	U3015	A3	A3
			R1065	E2	F1	U3025	C2	B3
			R1066	E2	F1	U3035	C3	C3
L4055	A2	E4	R1067	E2	F1	U3050	D2	E3
			R1068	F2	F1	U3060	D3	F3
Q1024	F1	B1	R1070	E3	G1	U3070	D4	F3
Q1058	D1	E1	R1073	F2	G2	U4015A	B2	A4
Q1061	F2	F1	R1073	F2	G2	U4015C	A1	A4
Q1065	F2	F1	R1073	F2	G2	U4015D	B3	A4
Q2017	C1	A2	R2017	B1	A2	U4015	B1	A1
Q2031	F2	C2	R2019	C1	A2	U4015	C4	A4
			R2028	C2	B2	U4015	A4	A4
			R2029	C2	B2	U4025	B1	B4
			R2038	A3	C2	U4035	A1	C4
			R2039	A3	C2	U4045	A1	D4
			R2046	A2	D2	U4060A	D3	G4
			R2047	A2	D2	U4060B	D2	G4
			R2059	E3	E2	U4060D	D4	G4
			R2061	E2	F2	U4060	C4	G4
			R2067	F2	F2			
			R2069	A2	G2			
			R2074	A3	G3			





6319-78



NOTE :
 * = PRINTED ELEMENT
 ** = FACTORY ADJUST ONLY
 ⚡ Static Sensitive Devices
 See Maintenance Section

2756P

HARMONIC MIXER & PHASE GATE

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HARMONIC MIXER &
 PHASE GATE

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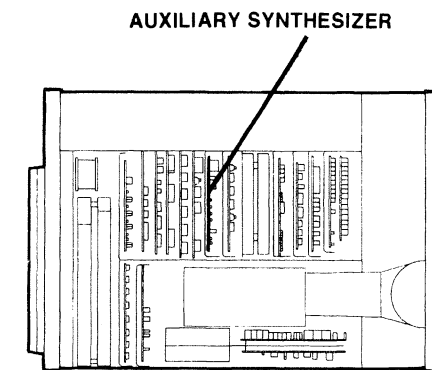
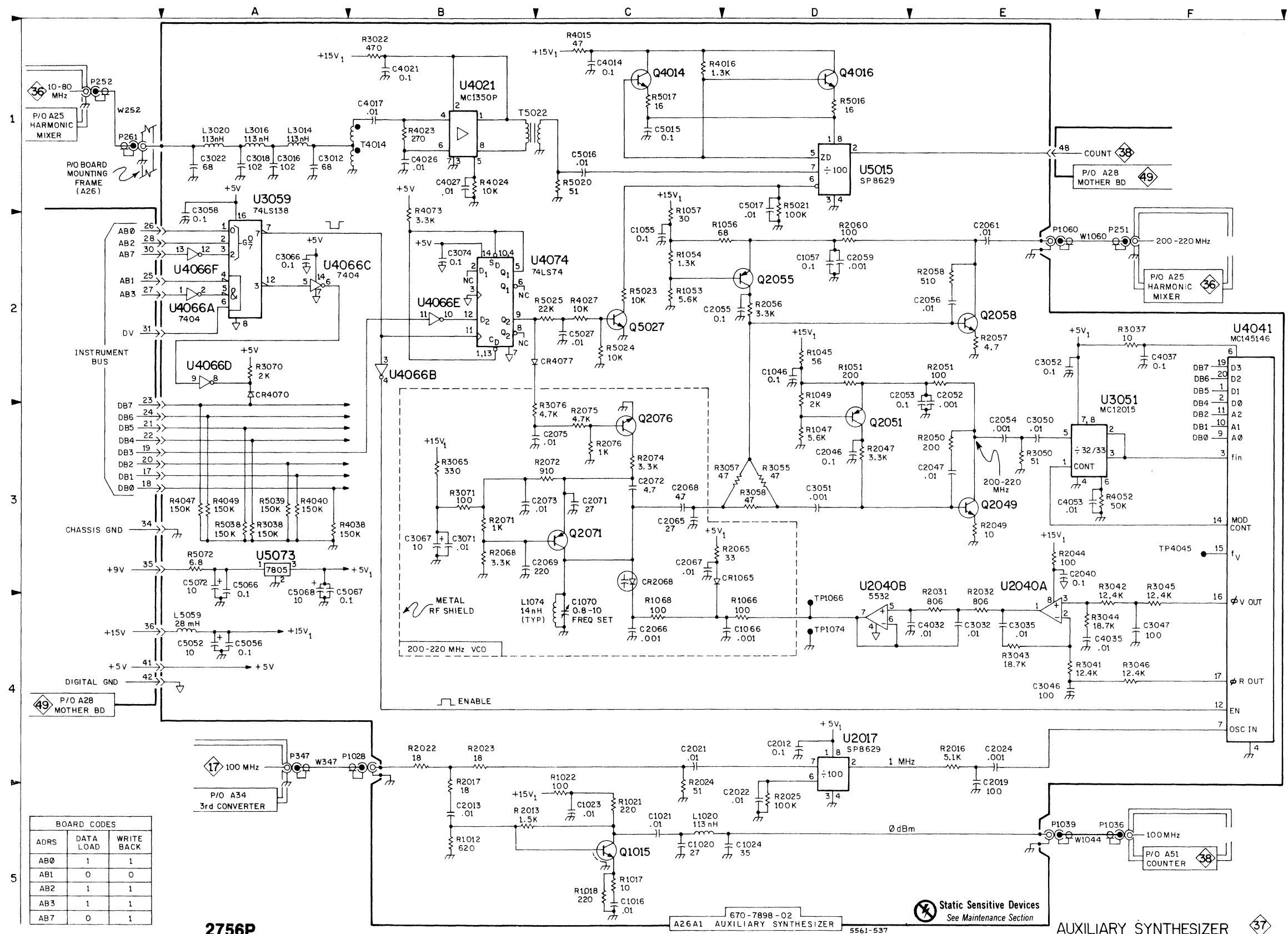


Fig. 10-48. A26A1—Auxiliary Synthesizer circuit board.

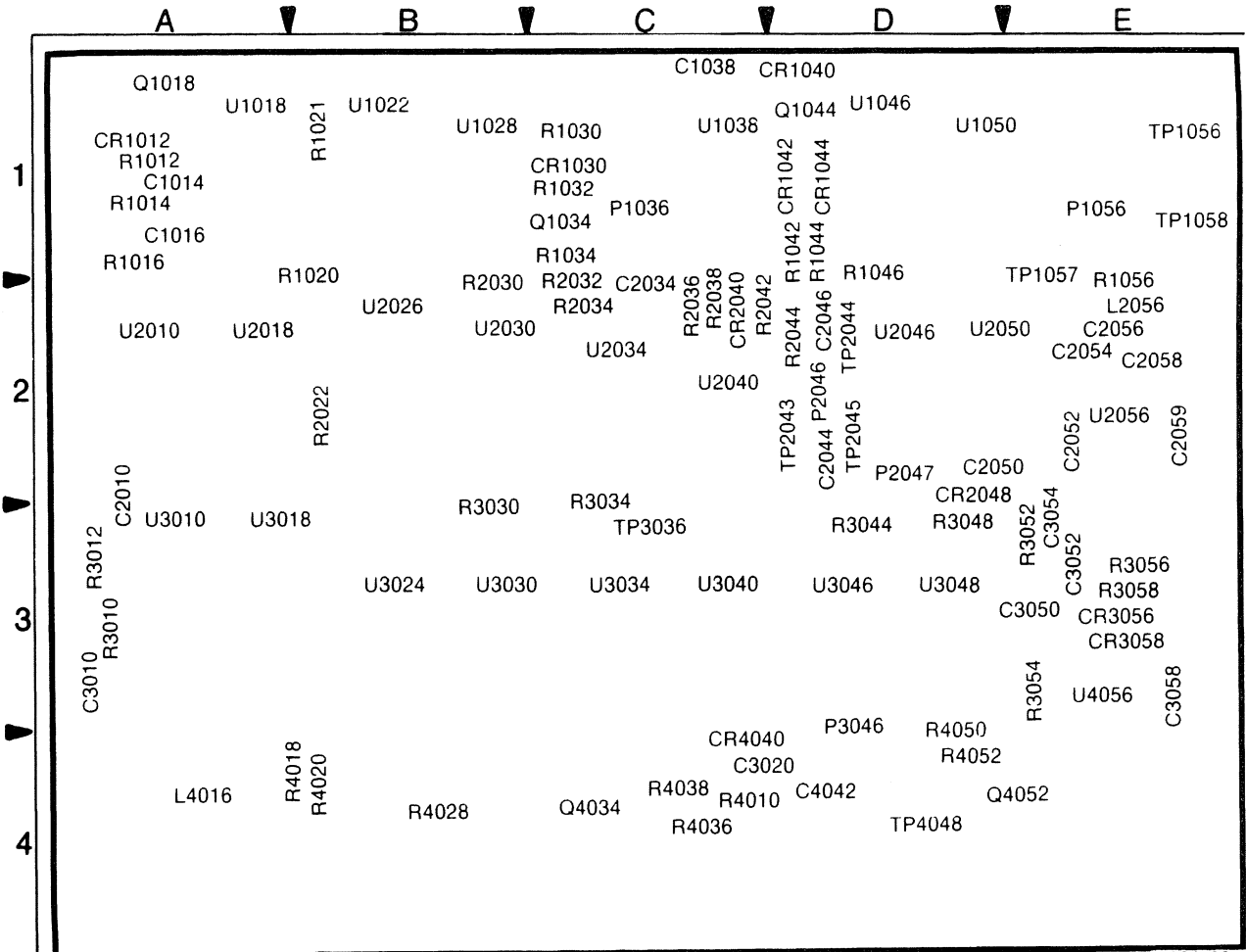
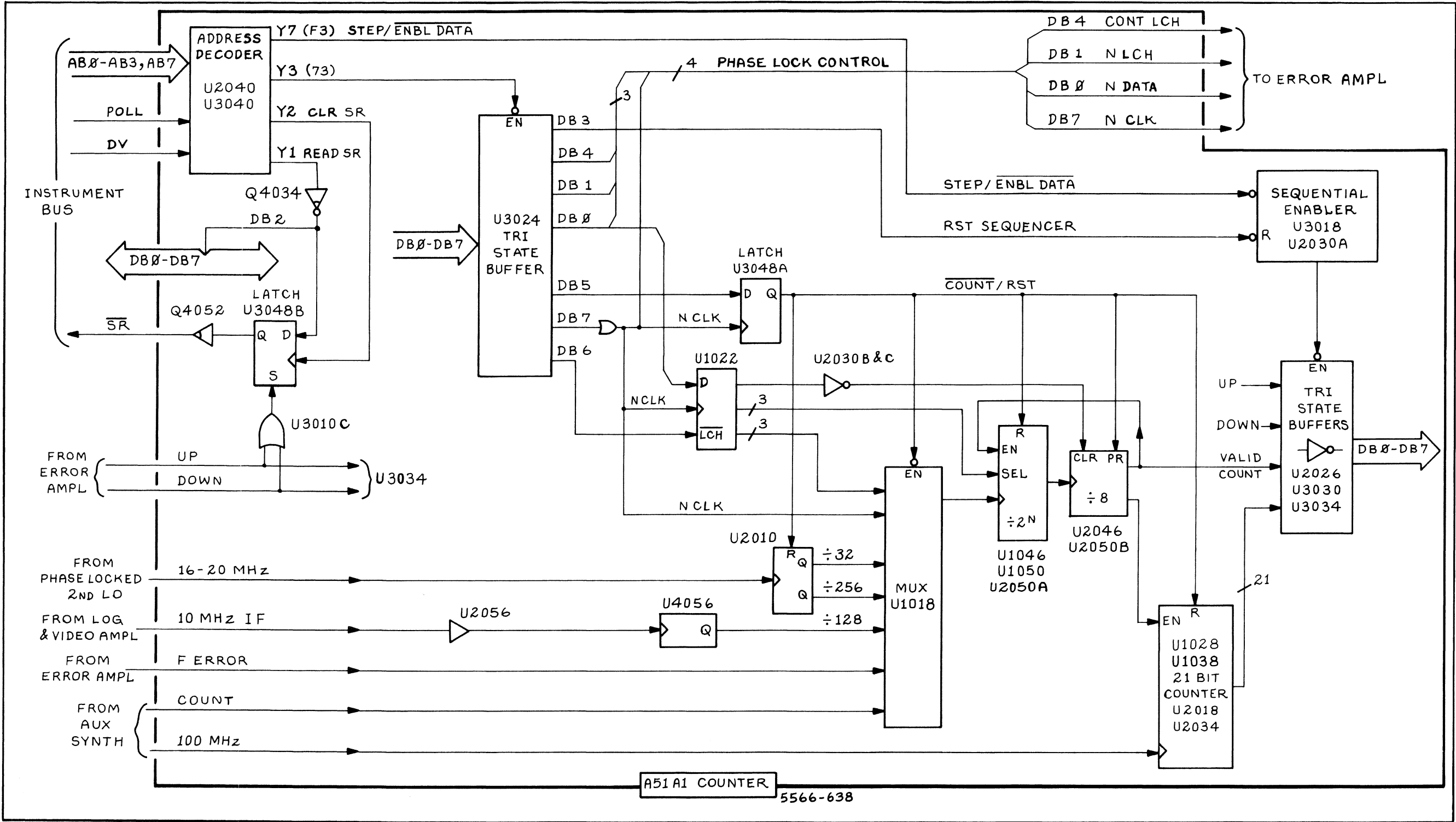
5566-634

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CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1016	C5	A1	C3074	B2	G3	R1018	C5	A1	R3058	D3	E3
C1020	C5	A1	C4014	C1	A4	R1021	C5	B1	R3065	B3	F3
C1021	C5	B1	C4017	B1	A3	R1022	C4	B1	R3070	A2	G3
C1023	C5	B1	C4021	B1	B3	R1045	D2	D1	R3071	B3	G3
C1024	D5	B1	C4026	B1	B4	R1047	D3	D1	R3076	C2	G3
C1046	D2	D1	C4027	B1	B4	R1049	D2	D1	R4015	C1	A4
C1055	C2	E1	C4032	E4	C4	R1051	D2	E1	R4016	C1	A4
C1057	D2	E1	C4035	F4	C4	R1053	C2	E1	R4023	B1	B4
C1066	D4	F1	C4037	F2	C4	R1054	C2	E1	R4024	B1	B4
C1070	C3	G1	C4053	E3	E4	R1056	C2	E1	R4027	C2	B4
C2012	D4	A2	C5015	C1	A5	R1057	C1	E1	R4038	A3	C4
C2013	B5	A2	C5016	C1	A5	R1066	D3	F1	R4040	A3	D4
C2019	E4	A2	C5017	D1	A5	R1068	C3	F1	R4047	A3	D4
C2021	C4	A2	C5027	C2	B5	R2013	B5	A2	R4049	A3	E4
C2022	D5	B2	C5052	A4	E5	R2016	E4	A2	R4052	F3	E4
C2024	E4	B2	C5056	A4	E5	R2017	B4	A2	R4073	B1	G4
C2040	E3	C2	C5066	A3	F4	R2022	B4	B2	R5016	D1	A5
C2046	D3	D2	C5067	A3	F5	R2023	B4	B2	R5017	C1	A5
C2047	E3	D2	C5068	A3	F5	R2024	C4	B2	R5020	C1	B5
C2052	E2	E2	C5072	A3	G5	R2025	D5	B2	R5021	D1	B5
C2053	D2	E2				R2031	E3	C2	R5023	C2	B5
C2054	E2	E2	CR1065	D3	F1	R2032	E3	C2	R5024	C2	B5
C2055	C3	E2	CR2068	C3	F1	R2044	E3	D2	R5025	C2	B5
C2056	E2	E2	CR4070	A2	G4	R2047	D3	D2	R5038	A3	C5
C2059	D2	E2	CR4077	C2	G4	R2049	E3	D2	R5039	A3	C5
C2061	E2	F2				R2050	E3	E2	R5072	A3	G5
C2065	C3	F2	L1020	C5	B1	R2051	E2	E2			
C2066	C4	F1	L1074	B3	G1	R2056	D2	E2	T4014	B1	A4
C2067	C3	F2	L3014	A1	A3	R2057	E2	E2	T5022	B1	A4
C2068	C3	F2	L3016	A1	A3	R2058	E2	E2			
C2069	C3	F2	L3020	A1	B3	R2060	D2	F2	TP1066	D3	F1
C2071	C3	G2	L5059	A4	E5	R2065	D3	F2	TP1074	D4	G1
C2072	C3	G2				R2068	B3	F2	TP4045	F3	D4
C2073	C3	G2	P1028	A4	B1	R2071	B3	G2			
C2075	C3	G2	P1039	E5	C1	R2072	C3	G2	U2017	D4	A2
C3012	A1	A3	P1060	E2	F1	R2074	C3	G2	U2040A	E3	C2
C3016	A1	A3				R2075	C3	G2	U2040B	D3	C2
C3018	A1	A3	Q1015	C5	A1	R2076	C3	G2	U3051	F2	E3
C3022	A1	B3	Q2049	E3	D2	R3022	B1	B3	U3059	A1	E4
C3032	E4	C3	Q2051	D3	E2	R3037	F2	C3	U4021	B1	B4
C3035	E4	C3	Q2055	D2	E1	R3038	A3	C3	U4041	F2	D4
C3046	E4	D3	Q2058	E2	E2	R3041	E4	D3	U4066A	A2	F4
C3047	F4	D3	Q2071	C3	G2	R3042	F3	D3	U4066B	B2	F4
C3050	E3	E3	Q2076	C3	G2	R3043	E4	D3	U4066C	A2	F4
C3051	D3	E3	Q4014	C1	A4	R3044	F4	D3	U4066D	A2	F4
C3052	E2	E3	Q4016	D1</							



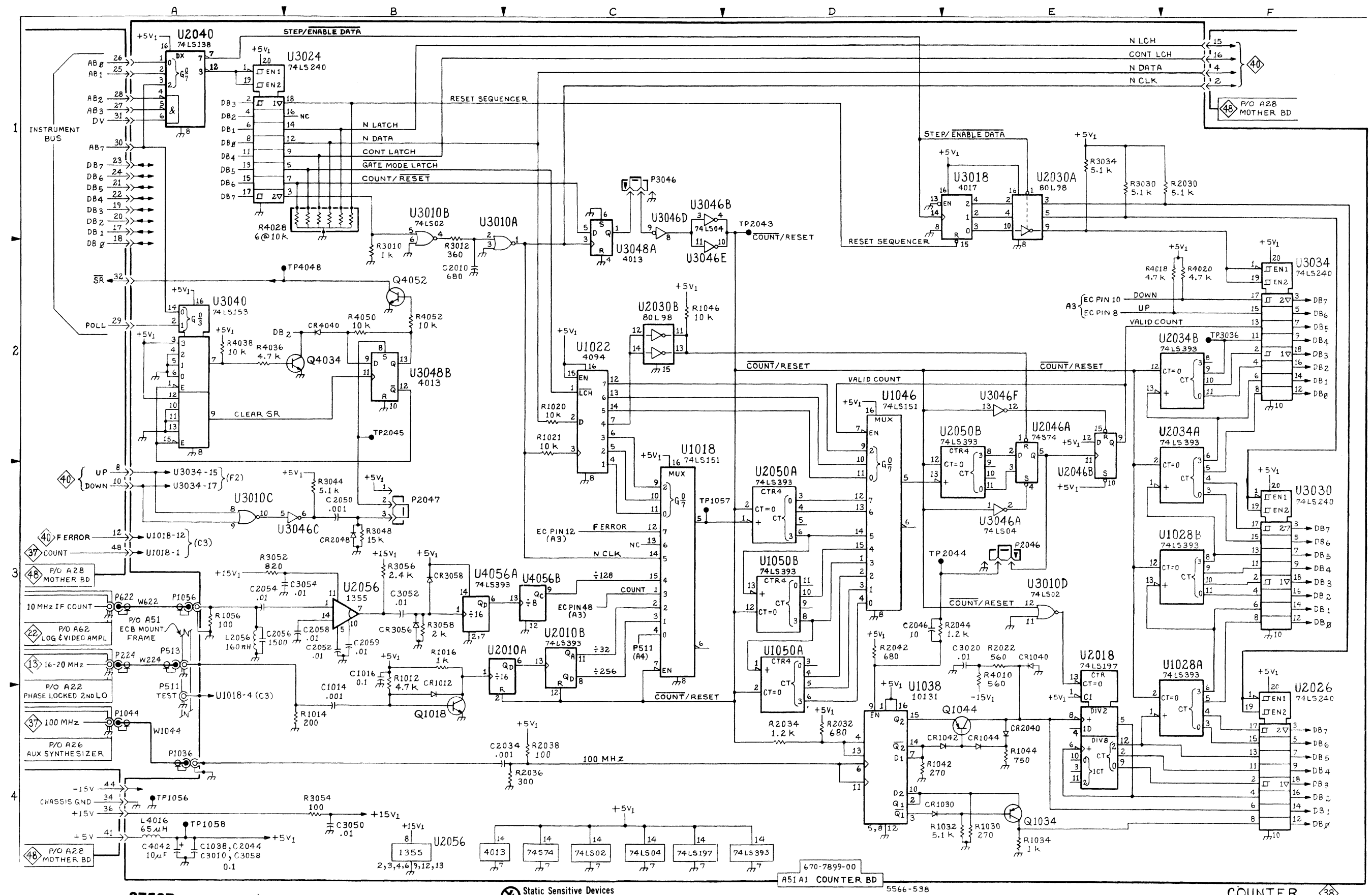
COUNTER BLOCK DIAGRAM
& CKT BD ILLUS



COUNTER

ASSEMBLY A51A1

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1014	B4	A1	R1012	B3	A1	U1018	A3	A1
C1016	B3	A1	R1014	B4	A1	U1018	A4	A1
C1038	A4	C1	R1016	B3	A1	U1018	C2	A1
C2010	B2	A3	R1020	C2	B1	U1022	C2	B1
C2034	B4	C2	R1021	C2	B1	U1028A	F3	B1
C2044	A4	D2	R1030	E4	C1	U1028B	F3	B1
C2046	D3	D2	R1032	D4	C1	U1038	D4	C1
C2050	B3	D2	R1034	E4	C1	U1046	D2	D1
C2052	B3	E2	R1042	D4	D1	U1050A	D3	D1
C2054	A3	E2	R1044	E4	D1	U1050B	D3	D1
C2056	A3	E2	R1046	C2	D1	U2010A	B3	A2
C2058	B3	E2	R1056	A3	E1	U2010B	C3	A2
C2059	B3	E2	R2022	E3	B2	U2018	E3	A2
C3010	A4	A3	R2030	F1	B2	U2026	F4	B2
C3020	E3	D4	R2032	D4	C2	U2030A	E1	B2
C3050	B4	E3	R2034	D4	C2	U2030B	C2	B2
C3052	B3	E3	R2036	C4	C2	U2034A	F2	C2
C3054	B3	E3	R2038	C4	C2	U2034B	F2	C2
C3058	A4	E3	R2042	D3	C2	U2040	A1	C2
C4042	A4	D4	R2044	E3	D2	U2046A	E2	D2
			R3010	B2	A3	U2046B	E3	D2
CR1012	B4	A1	R3012	B2	A3	U2050A	D3	D2
CR1030	D4	C1	R3030	E1	B3	U2050B	E2	D2
CR1040	E3	D1	R3034	E1	C3	U2056	B3	E2
CR1042	D4	D1	R3044	B3	D3	U2056	B3	E2
CR1044	E4	D1	R3048	B3	D3	U2056	B4	E2
CR2040	E4	C2	R3052	A3	E3	U3010A	B1	A3
CR2048	B3	D2	R3054	B4	E3	U3010B	B1	A3
CR3056	B3	E3	R3056	B3	E3	U3010C	A3	A3
CR3058	B3	E3	R3058	B3	E3	U3010D	A3	A3
CR4040	B2	C4	R4010	E3	C4	U3018	E1	A3
			R4018	F2	A4	U3024	B1	B3
L2056	A3	E2	R4020	F2	B4	U3030	F3	B3
L4016	A4	A4	R4028	A1	B4	U3034	A3	C3
			R4036	A2	C4	U3034	F2	C3
P1036	A4	C1	R4038	A2	C4	U3040	A2	C3
P1056	A3	E1	R4050	B2	D4	U3046A	E3	D3
P2046	E3	D2	R4052	B2	D4	U3046B	C1	D3
P2047	B3	D2				U3046C	A1	D3
P3046	C1	D4	TP1056	A4	E1	U3046D	C3	D3
			TP1057	C3	E1	U3046E	C2	D3
Q1018	B4	A1	TP1058	A4	E1	U3046F	E2	D3
Q1034	E4	C1	TP2043	D1	D2	U3048A	C2	D3
Q1044	E4	D1	TP2044	D3	D2	U3048B	B2	D3
Q4034	B2	C4	TP2045	B2	D2	U4056A	B3	E3
Q4052	B2	E4	TP3036	F2	C3	U4056B	C3	E3
			TP4048	B2	D4			



2756P

Static Sensitive Devices
See Maintenance Section

AS1A1 COUNTER BD 5566-538

COUNTER

COUNTER

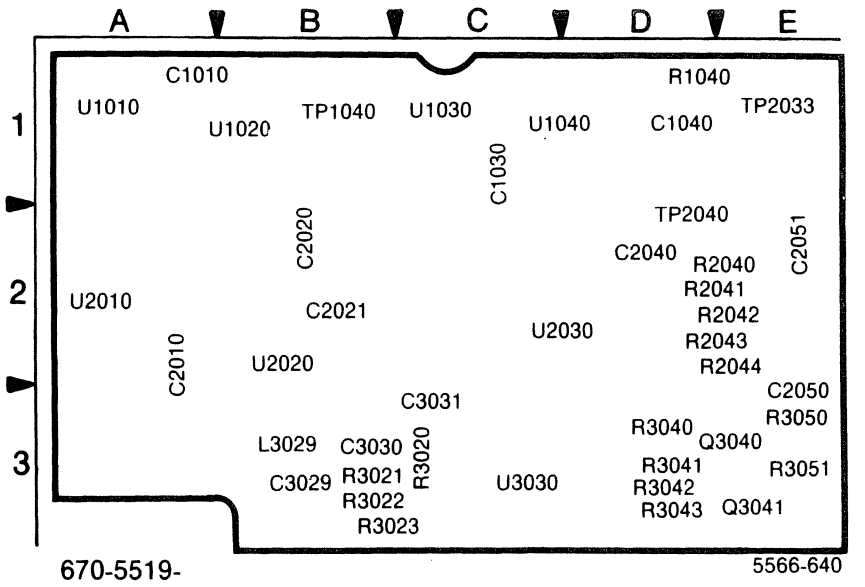
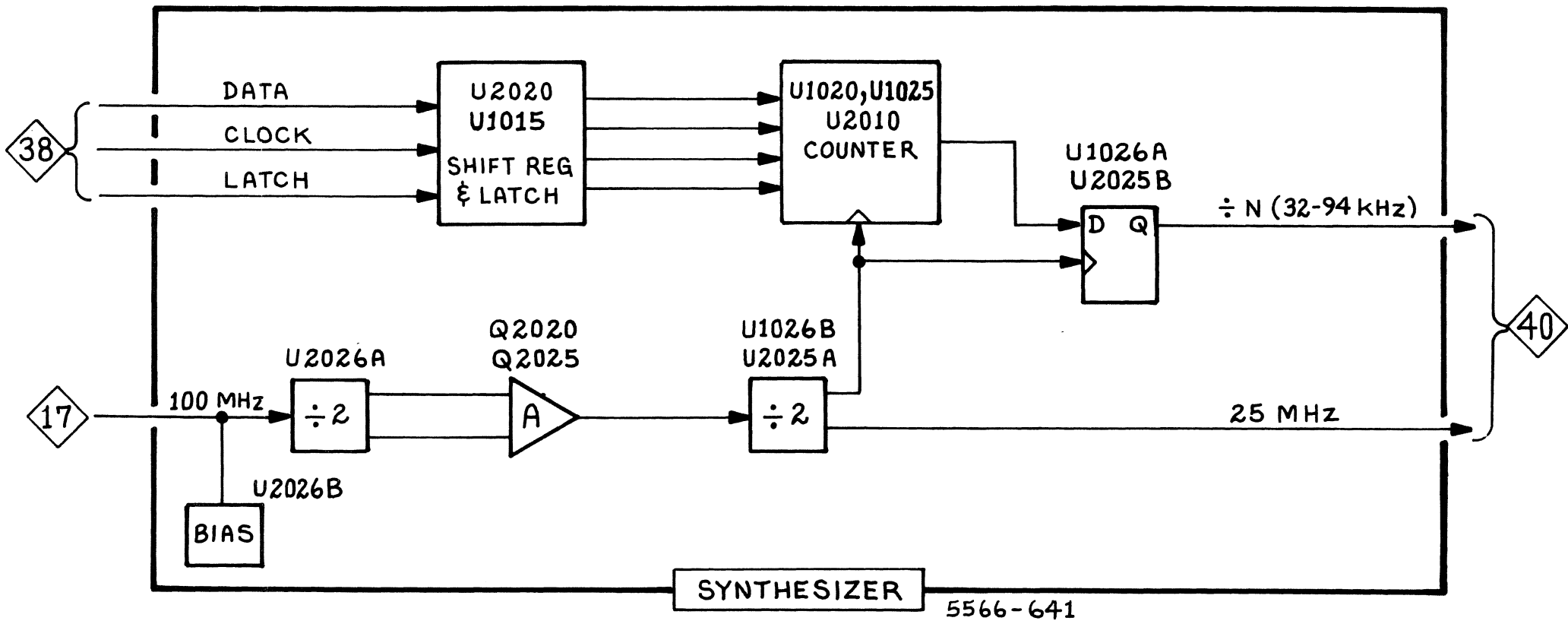
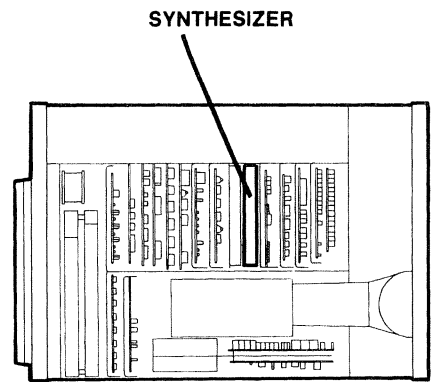


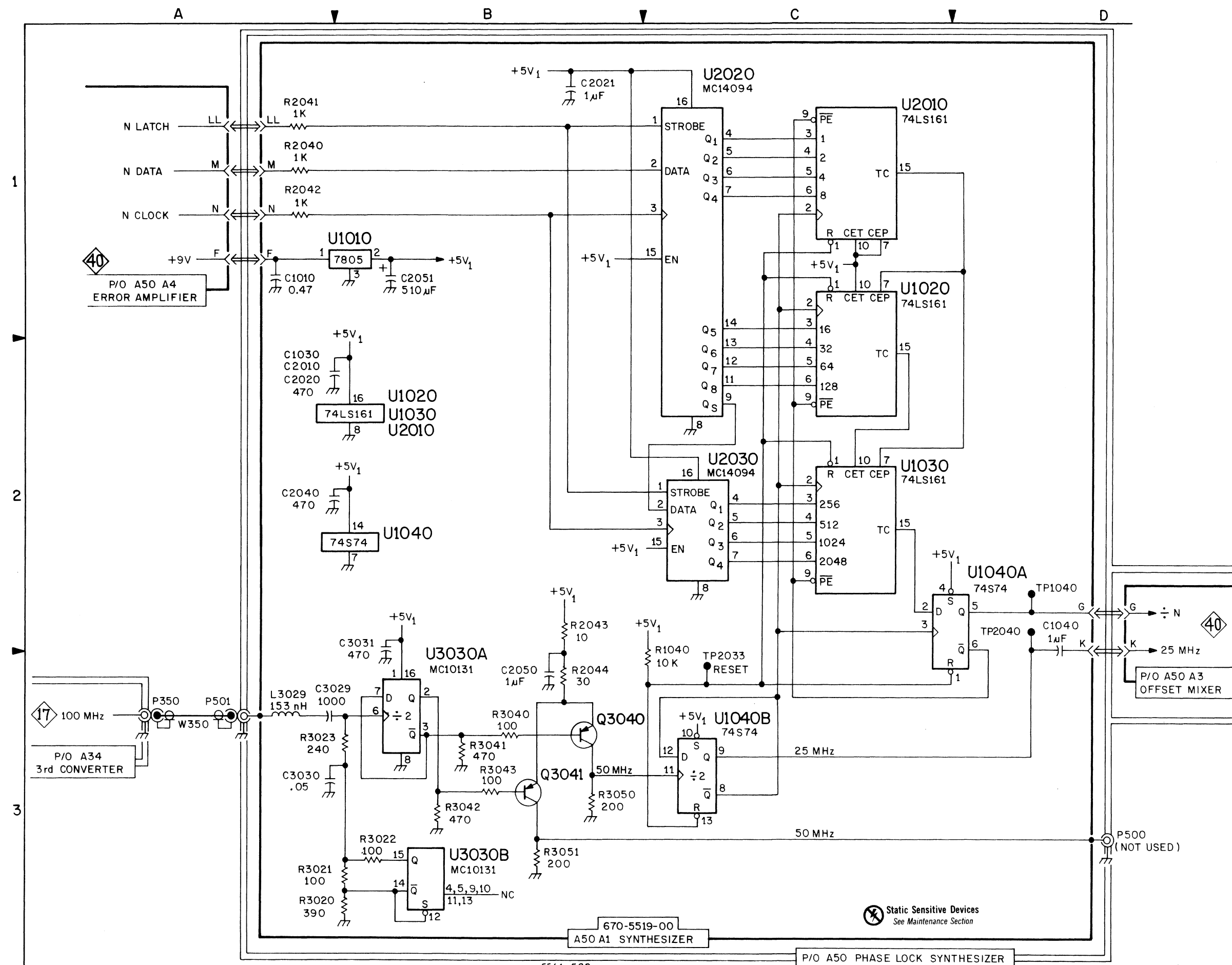
Fig. 10-50. A50A1—Synthesizer circuit board.

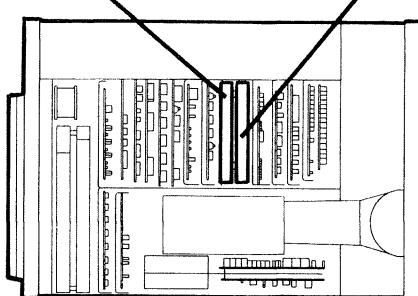
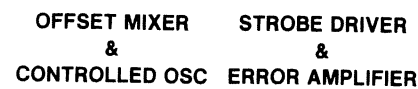


PHASE LOCK SYNTHESIZER (SYNTHESIZER)

ASSEMBLY A50A1

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1010	A1	A1	R3020	A3	C3
C1030	A1	C1	R3021	A3	B3
C1040	D2	D1	R3022	B3	B3
C2010	A1	A2	R3023	B3	B3
C2020	A1	B2	R3040	B3	D3
C2021	B1	B2	R3041	B3	D3
C2040	A2	D2	R3042	B3	D3
C2050	B3	E3	R3043	B3	D3
C2051	B1	32	R3050	B3	E3
C3029	A3	B3	R3051	B3	E3
C3030	A3	B3			
C3031	B2	C3			
L3029	A3	B3	TP1040	D2	B1
Q3040	B3	E3	TP2033	C3	E1
Q3041	B3	E3	TP2040	D2	D2
R1040	B3	D1	U1010	A1	A1
R2040	A1	E2	U1020	C1	B1
R2041	A1	D2	U1020	B2	B1
R2042	A1	E2	U1030	C2	C1
R2043	B2	D2	U1030	B2	C1
R2044	B3	E2	U1040	B2	D1
			U1040A	D2	D1
			U1040B	C3	D1
			U2010	B2	A2
			U2010	C1	A2
			U2020	C1	B2
			U2030	C2	C2
			U3030A	B3	C3
			U3030B	B3	C3





6319-49

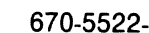


Fig. 10-53. A50A3—Offset Mixer circuit board.

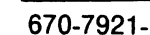


Fig. 10-54. A50A4—Error Amplifier circuit board.

Circuit Number	Schem Location	Board Location	Circuit Number	Schem Location	Board Location	Circuit Number	Schem Location	Board Location
C1011	D2	A1	L1011	D2	A1	R2021	E2	B2
C1012	D2	A2	L1025	D2	B1	R2022	D2	B1
C1013	D3	A2	L1035	C1	C1	R2025	E2	B2
C1024	D1	C1	L2034	D1	C2	R2026	E2	B2
C1025	C1	B1	L2043	D1	D2	R2027	E2	C2
C1031	C1	C1				R2031	C1	C2
C1038	D1	D1	P1025	D2	B1	R2032	D1	D2
C1041	D1	D1	P1033	C1	C1	R2033	E2	C2
C1042	D1	D1				R2034	D2	C2
C1048	D1	D1	Q1028	C1	B1	R2038	D1	C2
C2011	D2	A1	Q2025	E2	B2	R2041	D1	C2
C2021	C2	B1	Q2026	E1	C2	R2042	D1	D2
C2022	C2	B2	Q2033	D2	C1	R2043	D1	D2
C2023	E2	B2	Q2041	D1	D2			
C2034	D2	C2				TP1027	C2	B1
C2041	D1	D2	R1024	D2	B1	TP2011	E2	A2
C2042	D1	D1	R1026	C1	C1			
C2043	D1	D2	R1030	C1	C2	U2021	C2	B2
			R1031	C1	C1			
CR1011	D2	A1	R1032	C1	C1	Y2012	D2	A2
CR1012	D2	A1	R1033	C1	C1			
			R2020	C2	B1			

PHASE LOCK SYNTHESIZER (PHASE LOCK)



ASSEMBLY A50A2

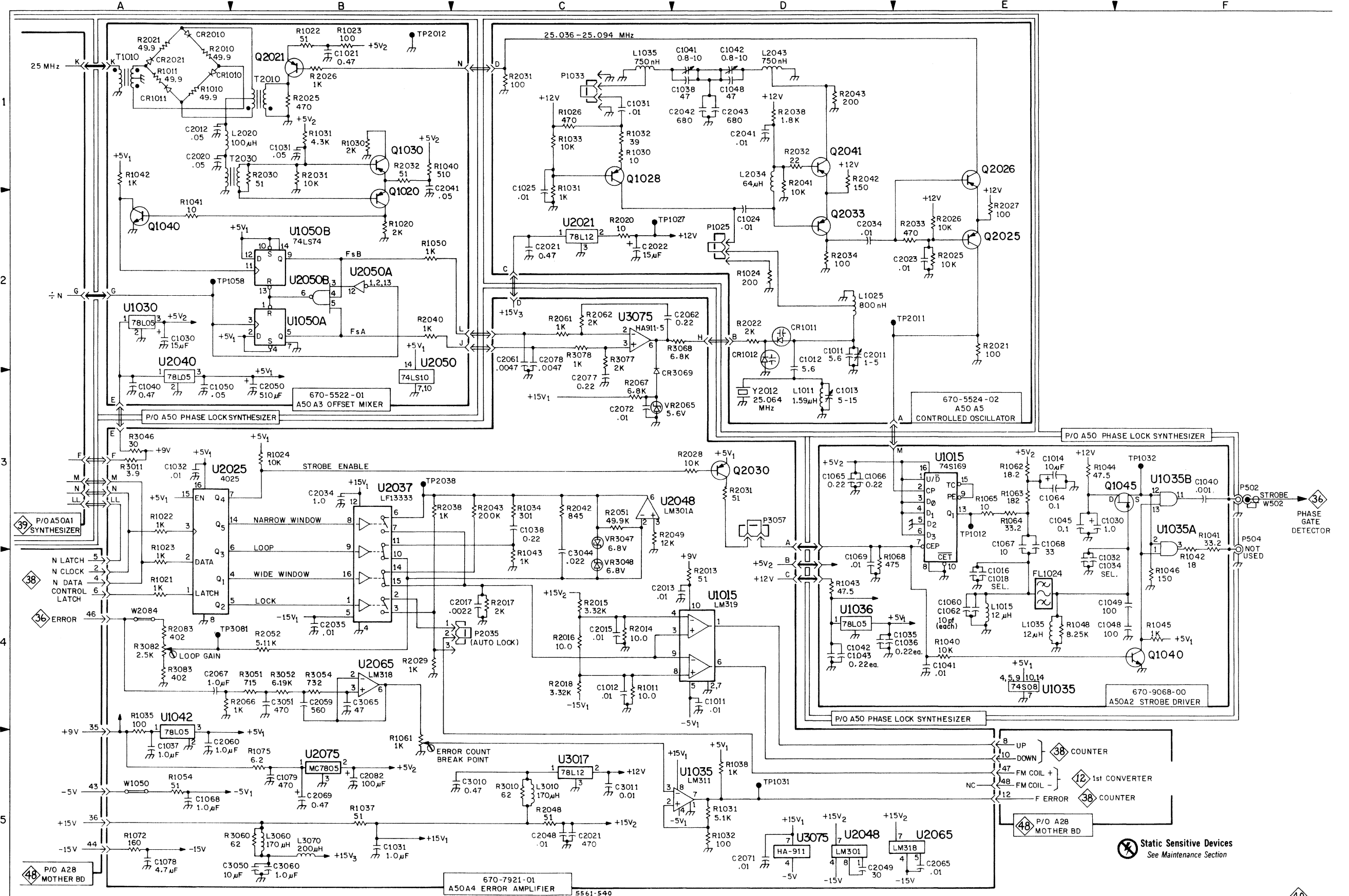
CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1014	E3	A1	C1048	F4	D1	L1035	E4	C1	R1048	E4	D1
C1016	E3	A1	C1049	F4	D1				R1062	E3	F1
C1018	E4	A1	C1060	E4	F1	Q1040	F4	D1	R1063	E3	F1
C1030	E3	C1	C1062	E4	F1	Q1045	F3	D1	R1064	E3	F1
C1032	E3	C1	C1064	E3	F1				R1065	E3	F1
C1034	E3	C1	C1065	D3	F1	R1040	E4	D1	R1068	E3	F1
C1035	E4	C1	C1066	D3	F1	R1041	E4	D1			
C1036	E4	C1	C1067	E3	F1	R1041	F3	D1	TP1012	E3	A1
C1040	F3	D1	C1068	E3	F1	R1042	F3	D1	TP1032	F3	C1
C1041	E4	D1	C1069	D3	F1	R1043	D4	D1			
C1042	D4	D1				R1044	E3	D1	U1015	E3	A1
C1043	D4	D1	FL1024	E3	B1	R1045	F4	D1	U1035A	F3	C1
C1045	E3	D1				R1046	F3	D1	U1035	F3	C1
			L1015	E4	A1				U1036	D4	C1

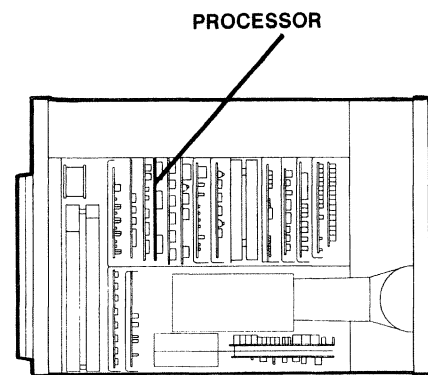
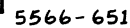
ASSEMBLY A50A4

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1011	D4	A1	C3011	C5	A3	R1061	B4	F2	R3060	A5	D3
C1012	C4	A1	C3044	C3	D2	R1072	A5	G2	R3068	D2	G3
C1031	B5	C1	C3050	B5	D3	R1075	B5	F1	R3077	C2	G3
C1032	A3	B2	C3051	B4	F3	R2013	D4	A3	R3078	C2	H3
C1037	A5	D1	C3060	B5	D3	R2014	C4	B2	R3082	A4	H3
C1038	C3	D1	C3065	B4	F3	R2015	C4	B3	R3083	A4	H3
C1068	A5	F1				R2016	C4	B2			
C1078	A5	G1	CR3069	D2	G3	R2017	C4	A2	TP1031	D5	B1
C1079	B5	F2				R2018	C4	A2	TP2038	B3	C2
C2013	D4	A2	L3010	C5	B3	R2028	D3	C2	TP3081	A4	H3
C2015	C4	B2	L3060	B5	D3	R2029	B4	C2			
C2017	C4	A2	L3070	B5	G3	R2031	D3	C2	U1015	D4	A2
C2021	C5	B3				R2038	B3	D2	U1035	D5	B2
C2034	B3	C3	P2035	C4	C2	R2042	C3	D2	U1042	A4	E1
C2035	B4	C2	P3057	D3	E3	R2043	C3	D2	U2025	A3	B2
C2048	C5	E2				R2048	C5	E2	U2037	B3	D2
C2049	E5	E2	Q2030	D3	C2	R2049	D3	D2	U2048	D3	E2
C2059	B4	F3				R2051	C3	E2	U2048	D5	E2
C2060	A5	F1	R1011	C4	A1	R2052	B4	E2	U2065	B4	F2
C2061	C2	F3	R1021	A4	B2	R2061	C2	F2	U2065	E5	F2
C2062	D2	F3	R1022	A3	B2	R2062	C2	F3	U2075	B5	G2
C2065	E5	F2	R1023	A3	B2	R2066	B4	E2	U3017	C5	A3
C2067	A4	F2	R1024	B3	C3	R2067	C2	G2	U3075	C2	G3
C2069	B5	F2	R1031	D5	B2	R2083	A4	H2	U3075	D5	G3
C2071	D5	F2	R1032	D5	B2	R3010	C5	B3			
C2072	C3	F2	R1034	C3	E1	R3011	A3	A3	VR2065	D3	F2
C2077	C2	H2	R1035	A4	E2	R3046	A3	D3	VR3047	C3	E2
C2078	C2	H2	R1037	B5	D1	R3051	B4	E2	VR3048	C3	E2
C2082	B5	H1	R1038	D5	C1	R3052	B4	E3			
C3010	C5	A3	R1043	C3	D1	R3054	B4	E3	W1050	A5	E1
			R1054	A5	F1				W2084	A4	H2

ASSEMBLY A50A3

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1021	B1	B1	L2020	B1	B2	R1040	B1	C1	T2010	B1	A2
C1030	A2	C1				R1041	A2	D1	T2030	B1	C2
C1031	B1	C1	Q1020	B2	B1	R1042	A1	D1			
C1040	A3	D1	Q1030	B1	C1	R1050	B2	E1	TP1058	A2	E1
C1050	A3	E1	Q1040	A2	D1	R2010	A1	A2	TP2012	B1	A2
C2012	A1	B2	Q2021	B1	B2	R2021	A1	B1			
C2020	A1	C2				R2025	B1	B2	U1030	A2	C1
C2041	B1	D2	R1010	A1	A1	R2026	B1	B2	U1050A	B2	E1
C2050	B3	E2	R1011	A1	A1	R2030	B1	B2	U1050B	B2	E1
			R1020	B2	B1	R2031	B1	C2	U2040	A2	D2
			R1022	B1	B1	R2032	B1	C2	U2050A	B2	E2
			R1023	B1	B1	R2040	B2	D2	U2050B	B2	E2
			R1030	B1	C1				U2050	B2	E2
			R1031	B1	C1	T1010	A1	A1			





MEMORY BLOCK DIAGRAM
& CKT BD ILLU

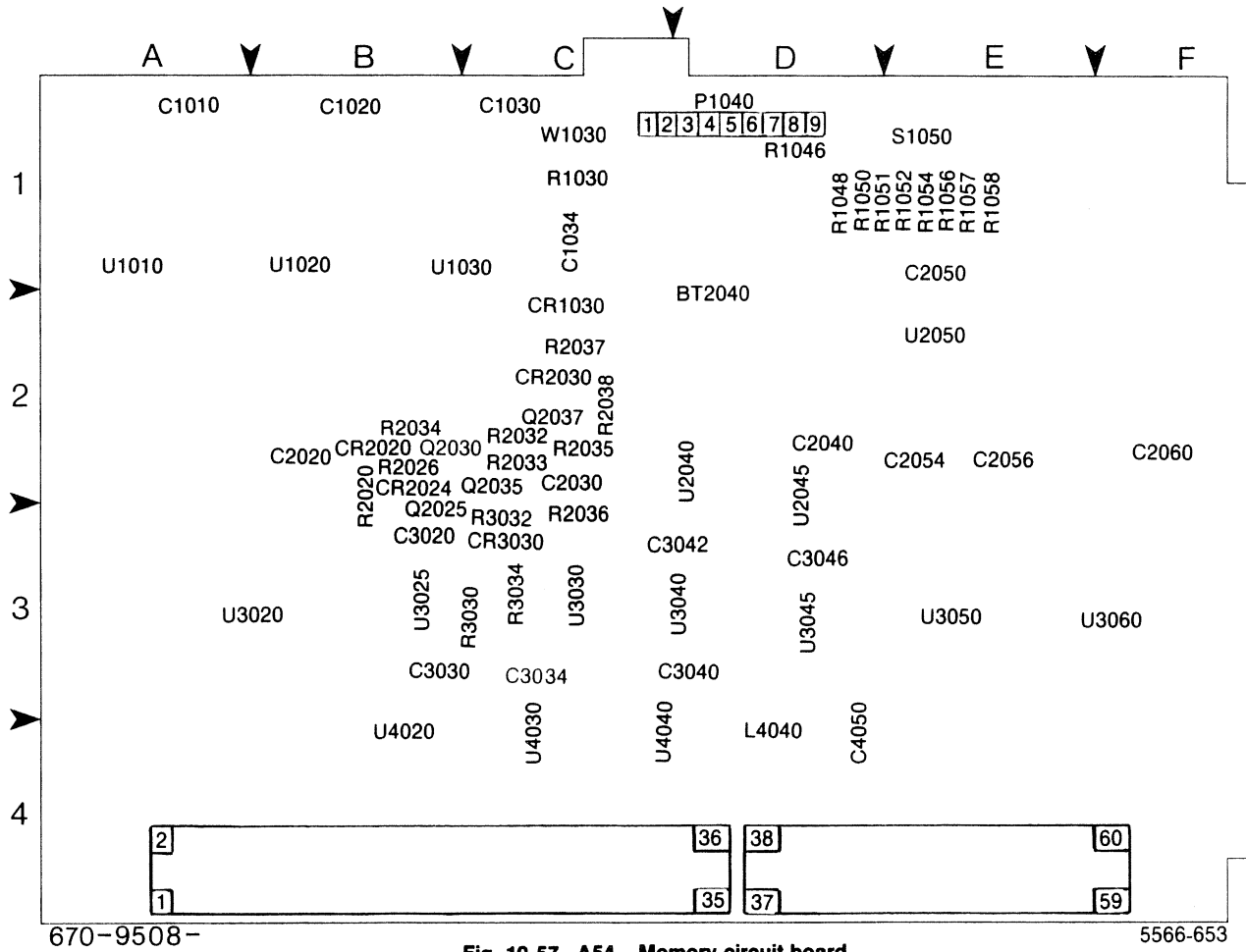
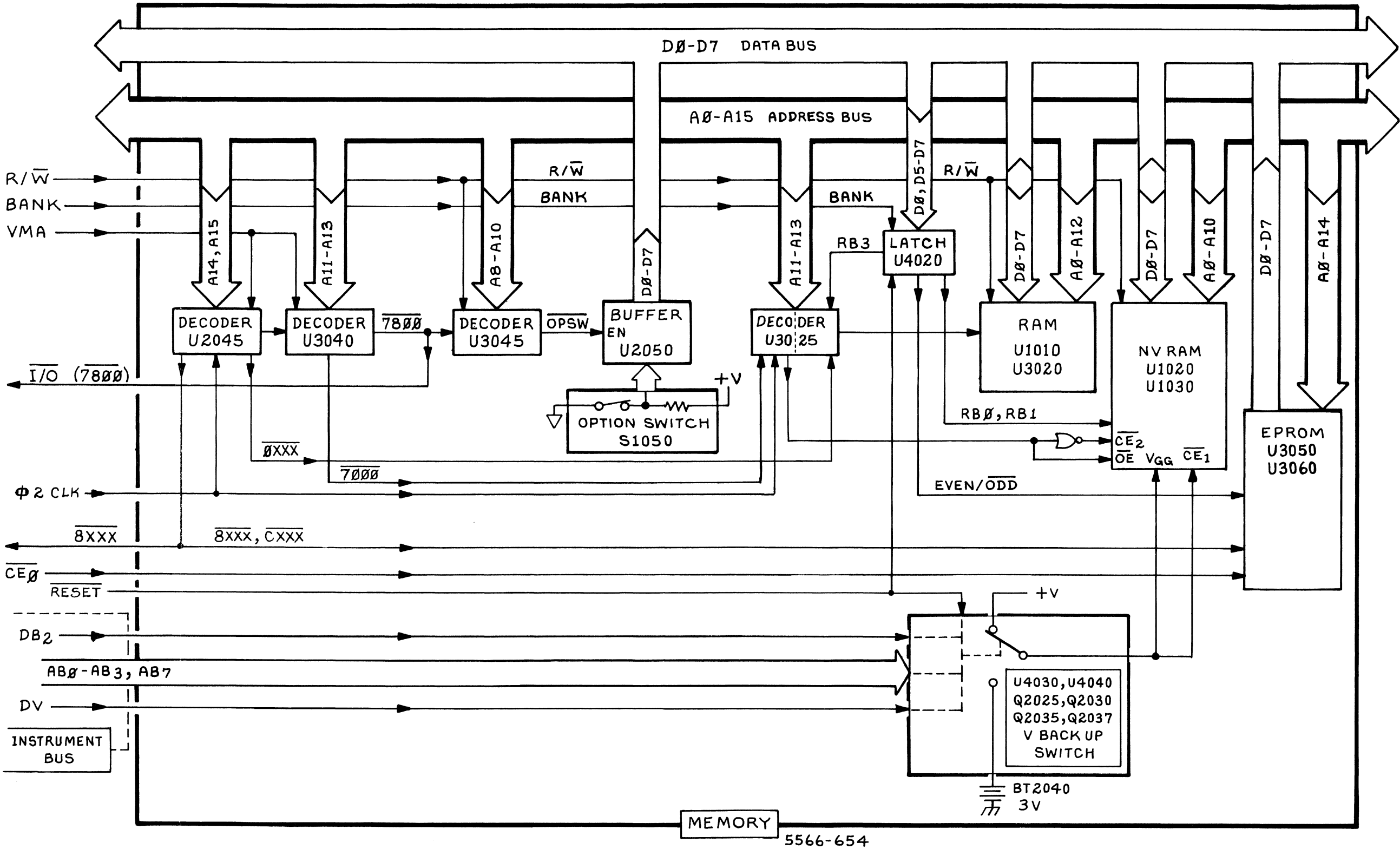
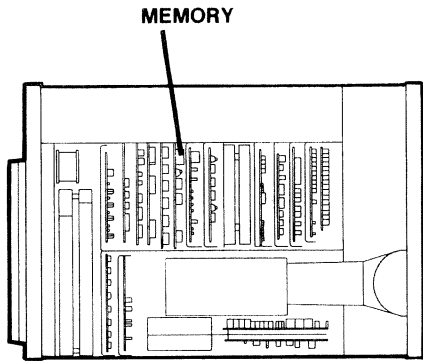


Fig. 10-57. A54—Memory circuit board.

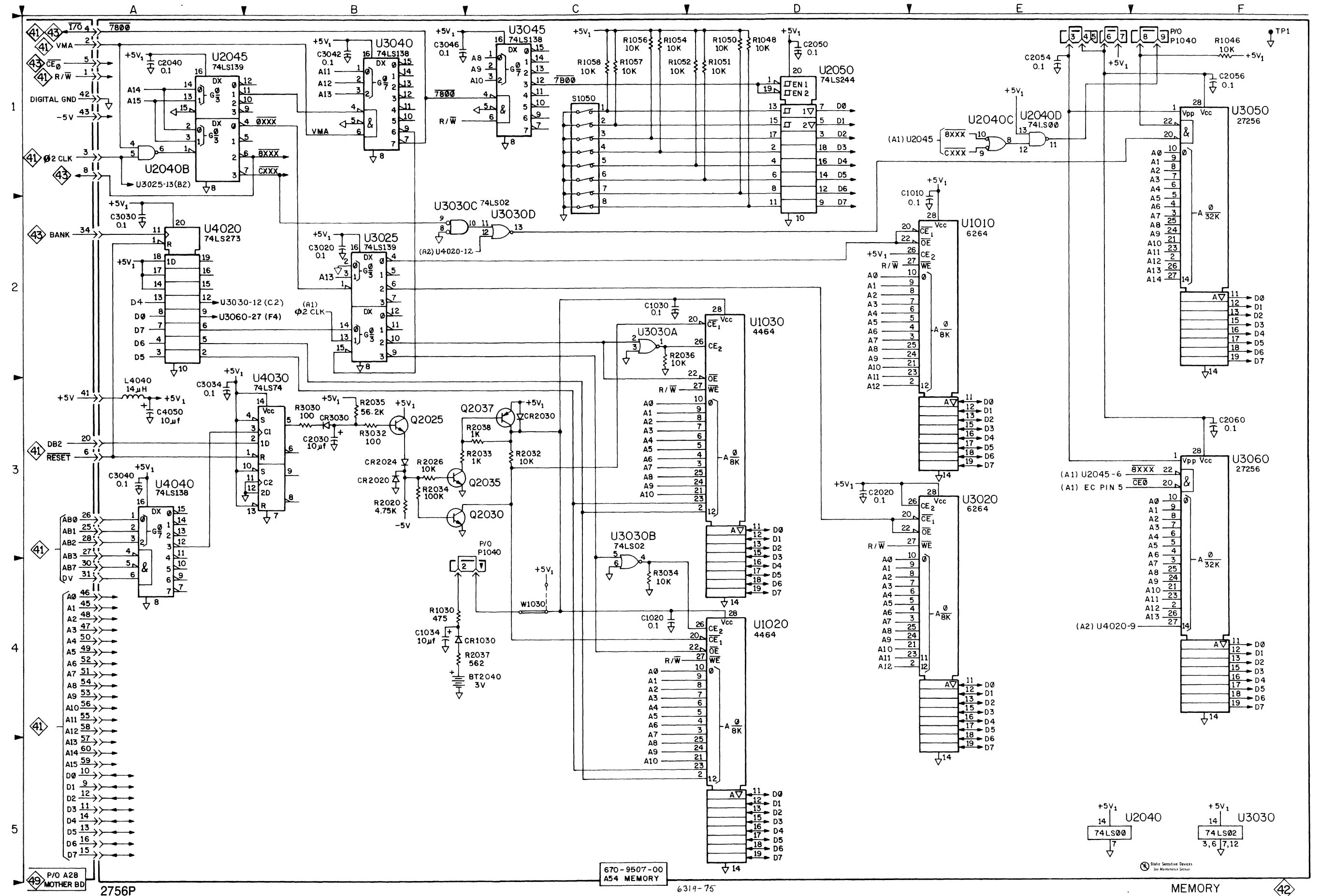
Static Sensitive Devices
See Maintenance Section



MEMORY

ASSEMBLY A54

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C1010	E1	A1	Q2030	C3	B2	U1030	D2	B1
C1020	C4	B1	Q2035	C3	C2	U2040B	A1	D2
C1030	C2	C1	Q2037	C3	C2	U2040C	E1	D2
C1034	B4	C1				U2040D	E1	D2
C2020	D3	B2	R1030	C4	C1	U2040	F5	D2
C2030	B3	C2	R1046	F1	D1	U2045	A1	D3
C2040	A1	D2	R1048	D1	D1	U2045	E1	D3
C2050	D1	E1	R1050	D1	D1	U2045	E3	D3
C2054	E1	E2	R1051	D1	D1	U2050	D1	E2
C2056	F1	E2	R1052	C1	E1	U3020	E3	B3
C2060	F3	F2	R1054	C1	E1	U3025	B2	B3
C3020	B2	B3	R1056	C1	E1	U3030A	C2	C3
C3030	A2	B3	R1057	C1	E1	U3030B	C3	C3
C3034	A3	C3	R1058	C1	E1	U3030C	B2	C3
C3040	A3	C3	R2020	B3	B2	U3030D	C2	C3
C3042	B1	C3	R2026	B3	B2	U3030	F5	C3
C3046	B1	D3	R2032	C3	C2	U3040	B1	C3
C4050	A3	D4	R2033	C3	C2	U3045	C1	D3
			R2034	B3	B2	U3050	F1	E3
			R2035	B3	C2	U3060	A2	F3
CR1030	B4	C2	R2036	C2	C3	U3060	F3	F3
CR2020	B3	B2	R2037	C4	C2	U4020	A2	B4
CR2024	B3	B2	R2038	C3	C2	U4020	E4	B4
CR2030	C3	C2	R3030	B3	B3	U4030	B3	C4
CR3030	B3	C3	R3032	B3	C3	U4040	A3	C4
			R3034	C4	C3			
L4040	A3	D4	S1050	C1	E1	W1030	C4	C1
P1040	C3	D1	U1010	E2	A1			
P1040	F1	D1						



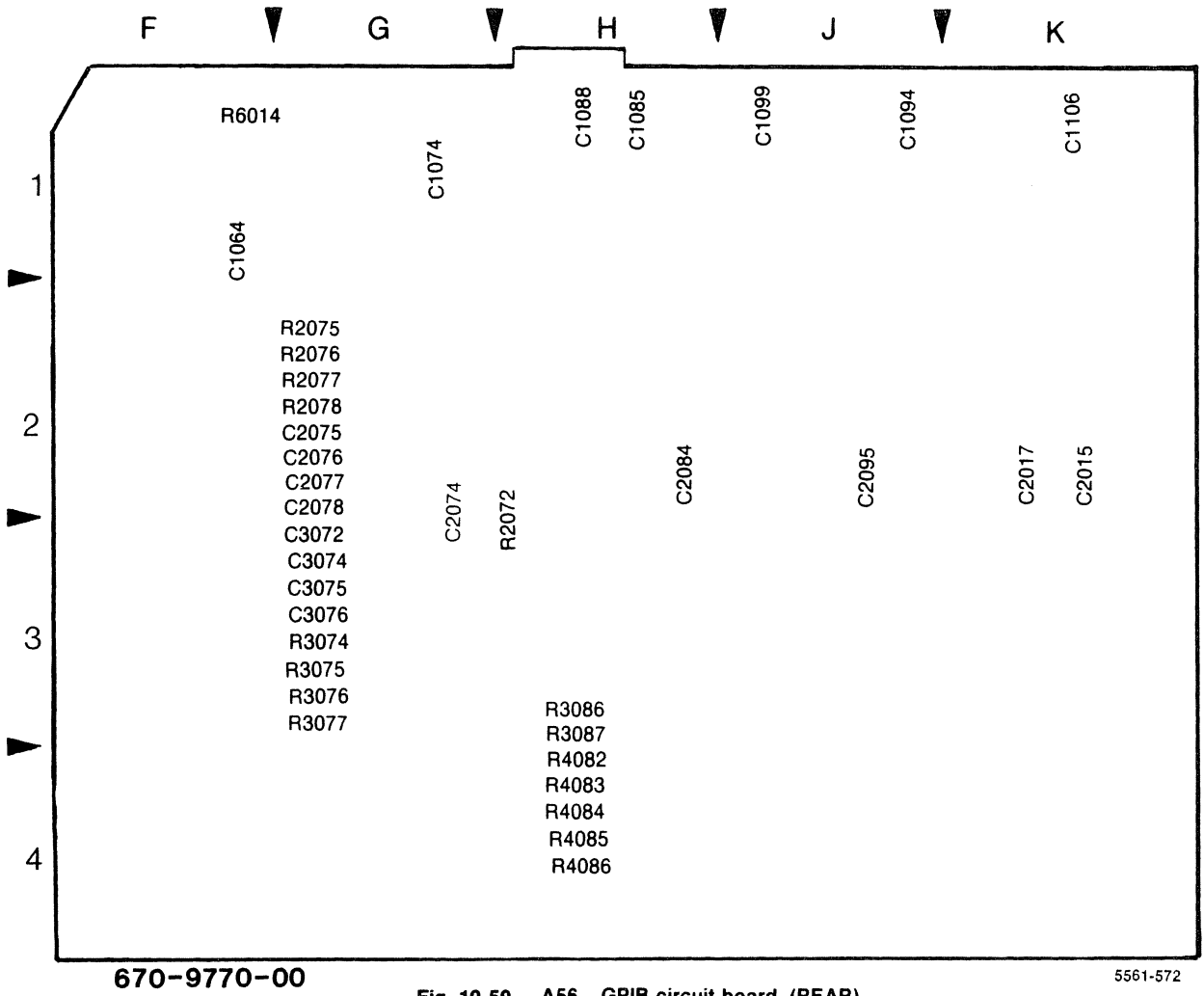
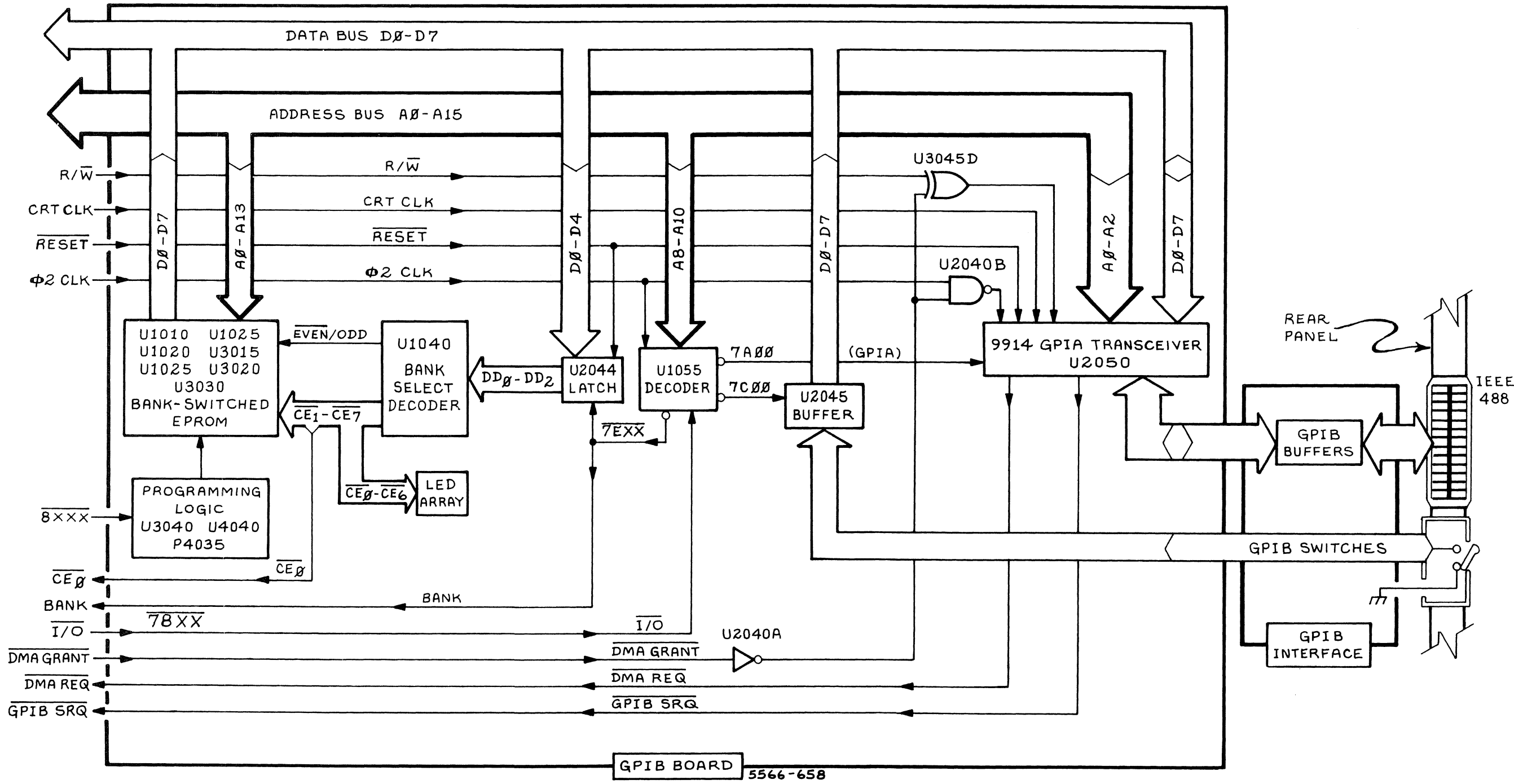
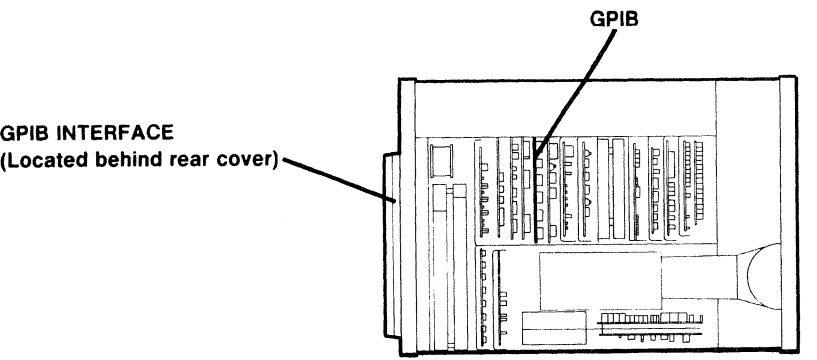


Fig. 10-59. A56—GPIB circuit board. (REAR)



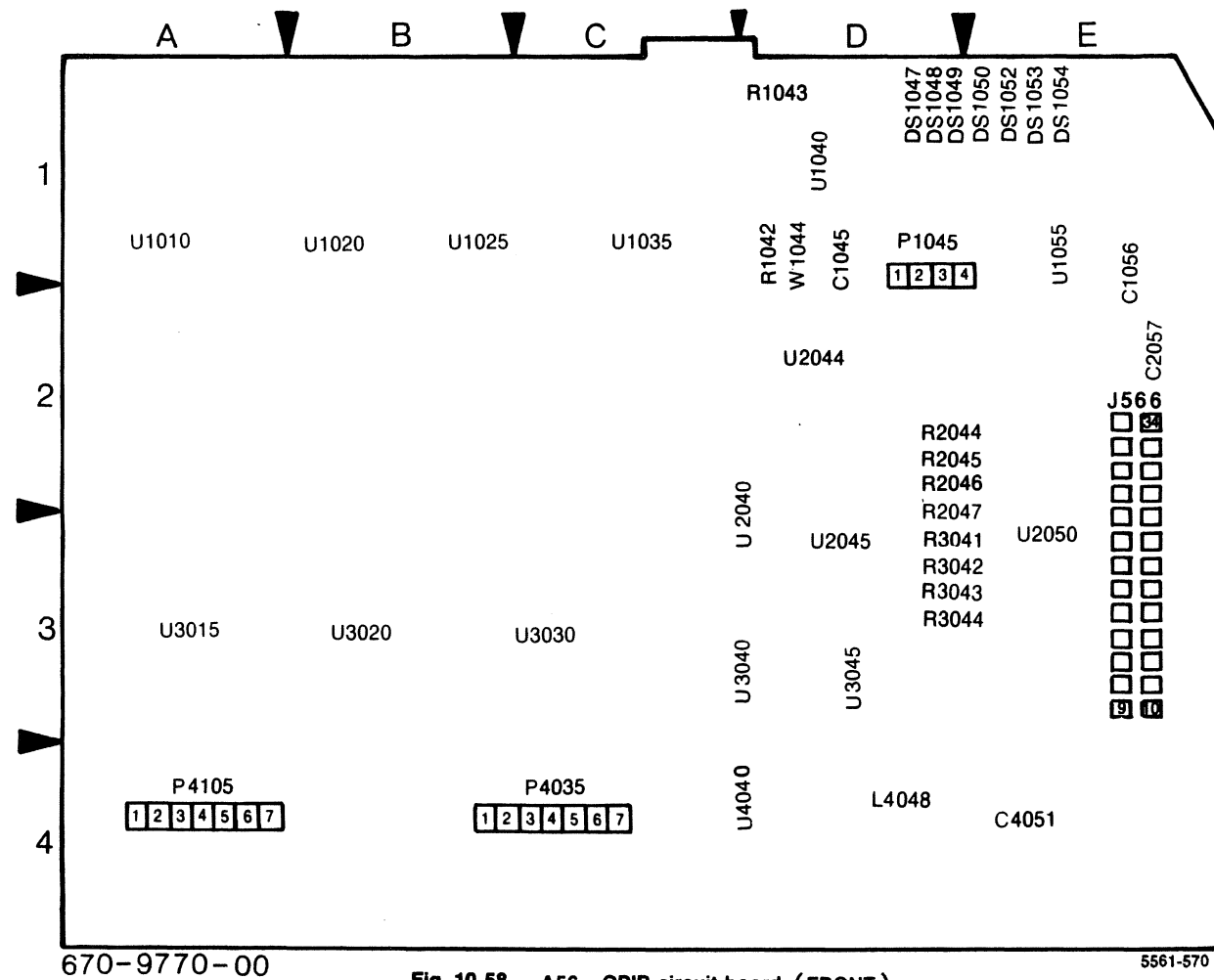
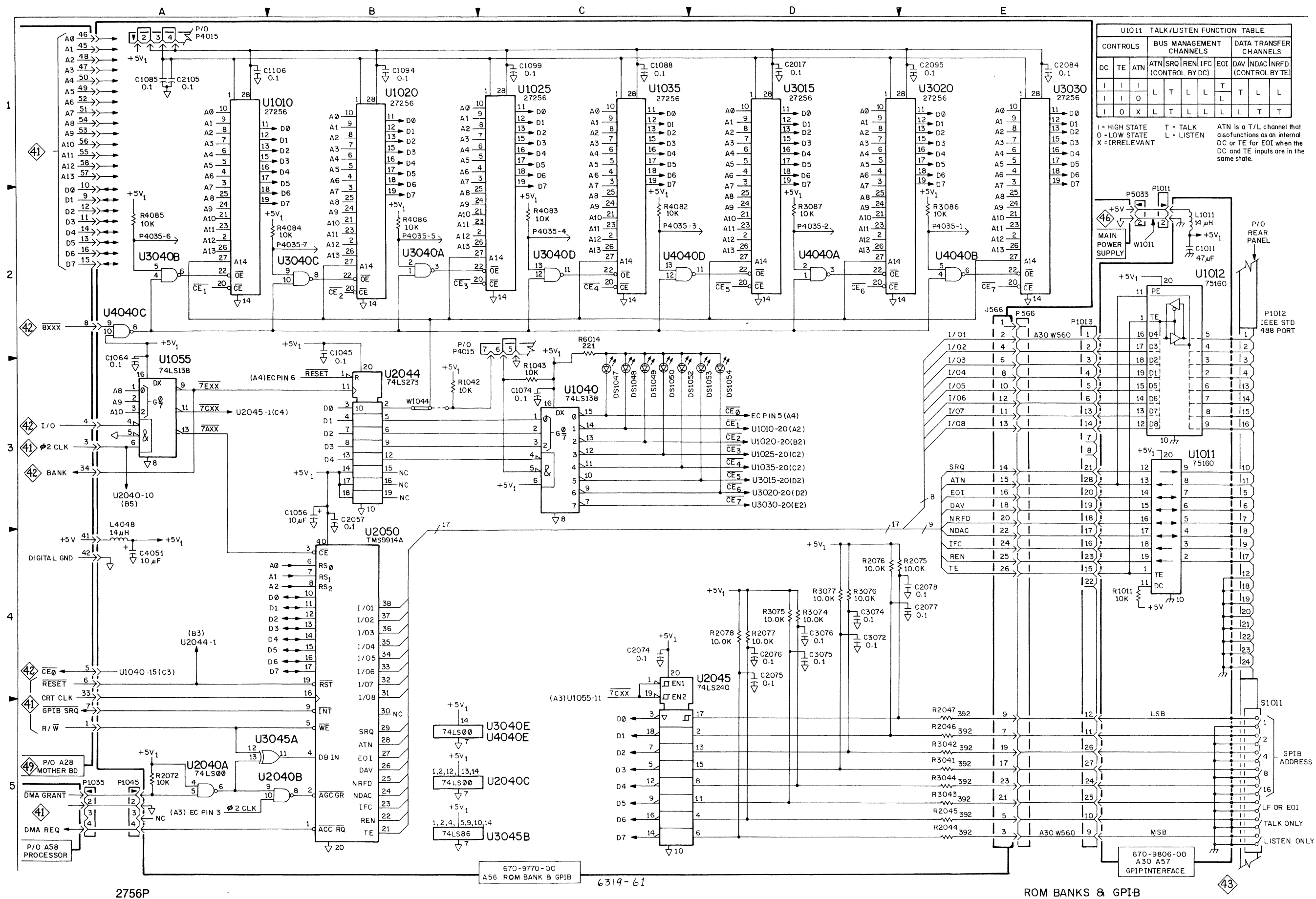


Fig. 10-58. A56—GPIB circuit board. (FRONT)

ROM BANKS & GPIB

ASSEMBLY A56

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1045	B2	D1	L4048	A3	D4	R3077	D4	G3	U3015	D1	A3
C1056	B3	E1				R3086	E2	H3			
C1064	A2	F1				R3087	D2	H3			
C1074	C3	G1	P1045	A5	D1	R4082	C2	H3	U3020	E1	B3
C1085	A1	H1	P4015	B2	A4	R4083	C2	H4			
C1088	C1	H1	P4015	B2	A4	R4084	B2	H4	U3030	E1	C3
C1094	B1	J1	P4035	A2	C4	R4085	A2	H4	U3040A	B2	C3
C1099	C1	J1	P4035	B2	C4	R4086	B2	H4	U3040B	A2	C3
C1106	B1	K1	P4035	B2	C4	R6014	C2	F1	U3040C	B2	C3
C2015	A1	K2	P4035	C2	C4				U3040D	C2	C3
C2017	D1	K2	P4035	C2	C4	U1010	B1	A1	U3040E	C4	C3
C2057	B3	E2	P4035	D2	C4	U1020	B1	B1	U3045B	C4	D3
C2074	C4	G2	P4035	E2	C4				U3045A	B5	D3
C2075	D4	G2				U1025	C1	B1	U4040A	D2	C4
C2076	D4	G2				U1035	C1	C1	U4040C	A2	C4
C2077	E4	G2							U4040D	C2	C4
C2078	E4	G2							U4040E	C4	C4
C2084	E1	H2	R1042	B3	D1						
C2095	E1	J2	R2044	E5	D2	U1040	C3	D1			
C3072	D4	G3	R2045	E5	D2	U1055	A3	E1			
C3074	D4	G3	R2046	E5	D2						
C3075	D4	G3	R2047	E5	D2	U2040A	A5	C3			
C3076	D4	G3	R2072	A5	H2	U2040B	B5	C3			
C4051	A4	E4	R2076	D4	G2	U2040C	C4	C3			
DS1047	C3	D1	R2077	D4	G2						
DS1048	C3	D1	R2078	D4	G2	U2044	B3	D2			
DS1049	C3	D1	R3041	E5	D3						
DS1050	C3	E1	R3042	E5	D3						
DS1052	D3	E1	R3043	E5	D3						
DS1053	D3	E1	R3044	E5	D3						
DS1054	D3	E1	R3074	D4	G3						
			R3075	D4	G3						
			R3076	D4	G3						



ROM BANKS & GPIB

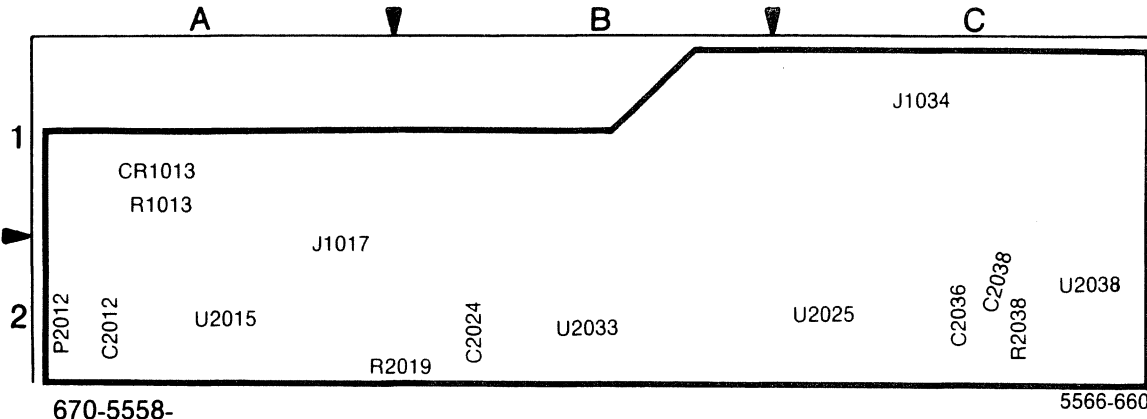
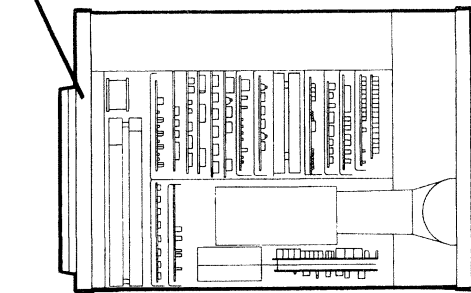


Fig. 10-60. A30A76—Accessories Interface circuit board.

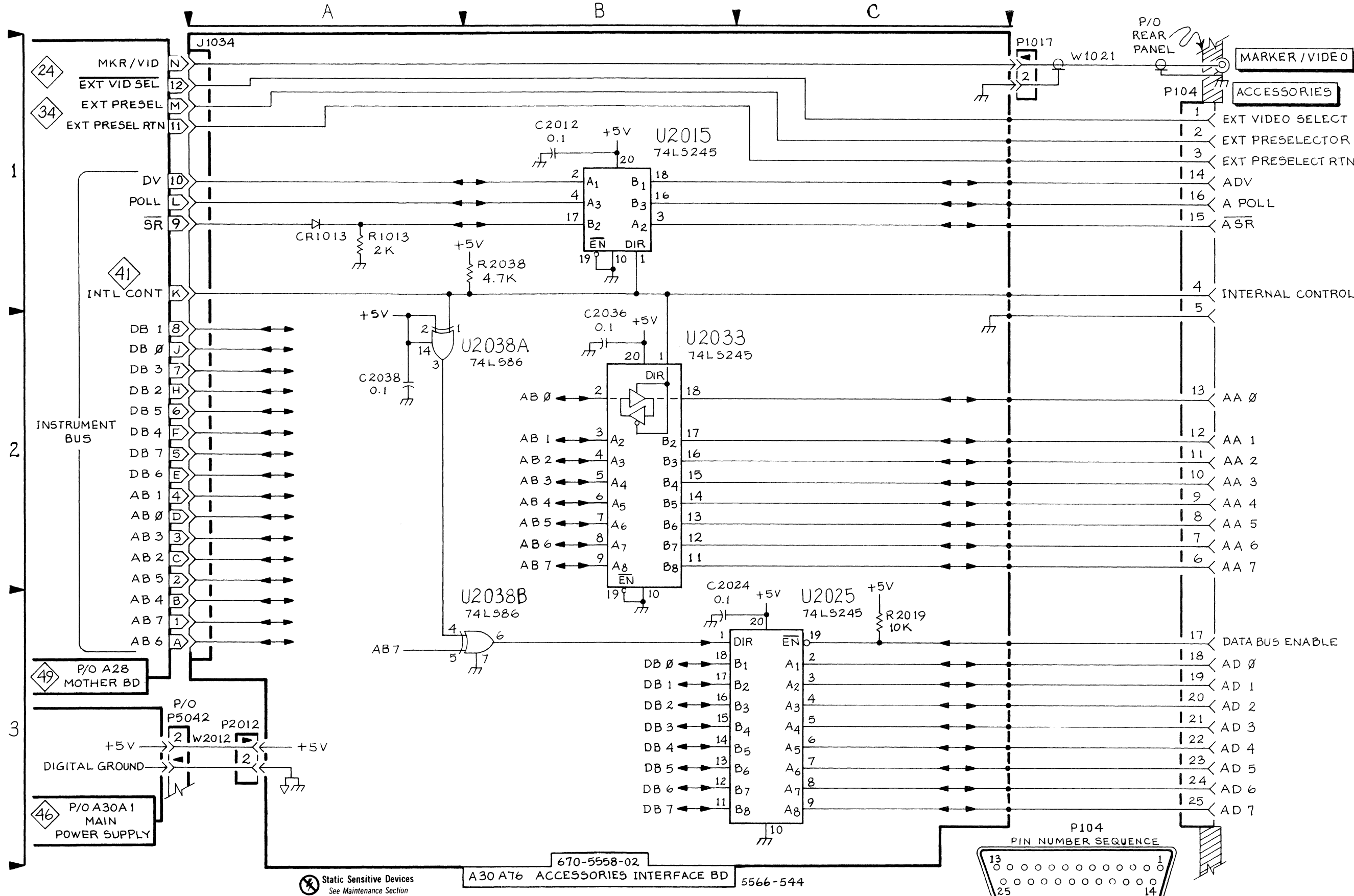
ACCESSORIES INTERFACE
(Located behind rear cover)



ACCESSORIES INTERFACE

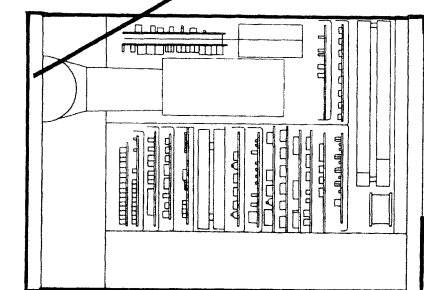
ASSEMBLY A30A76

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C2012	B1	A2	R1013	A1	A1
C2024	B2	B2	R2019	C3	B2
C2036	B2	C2	R2038	B1	C2
C2038	A2	C2			
CR1013	A1	A1	U2015	B1	A2
			U2025	C3	C2
			U2033	B2	B2
J1017	C1	A2	U2038B	B3	C2
J1034	A1	C1	U2038	B2	C2
P2012	A3	A2			





FRONT PANEL

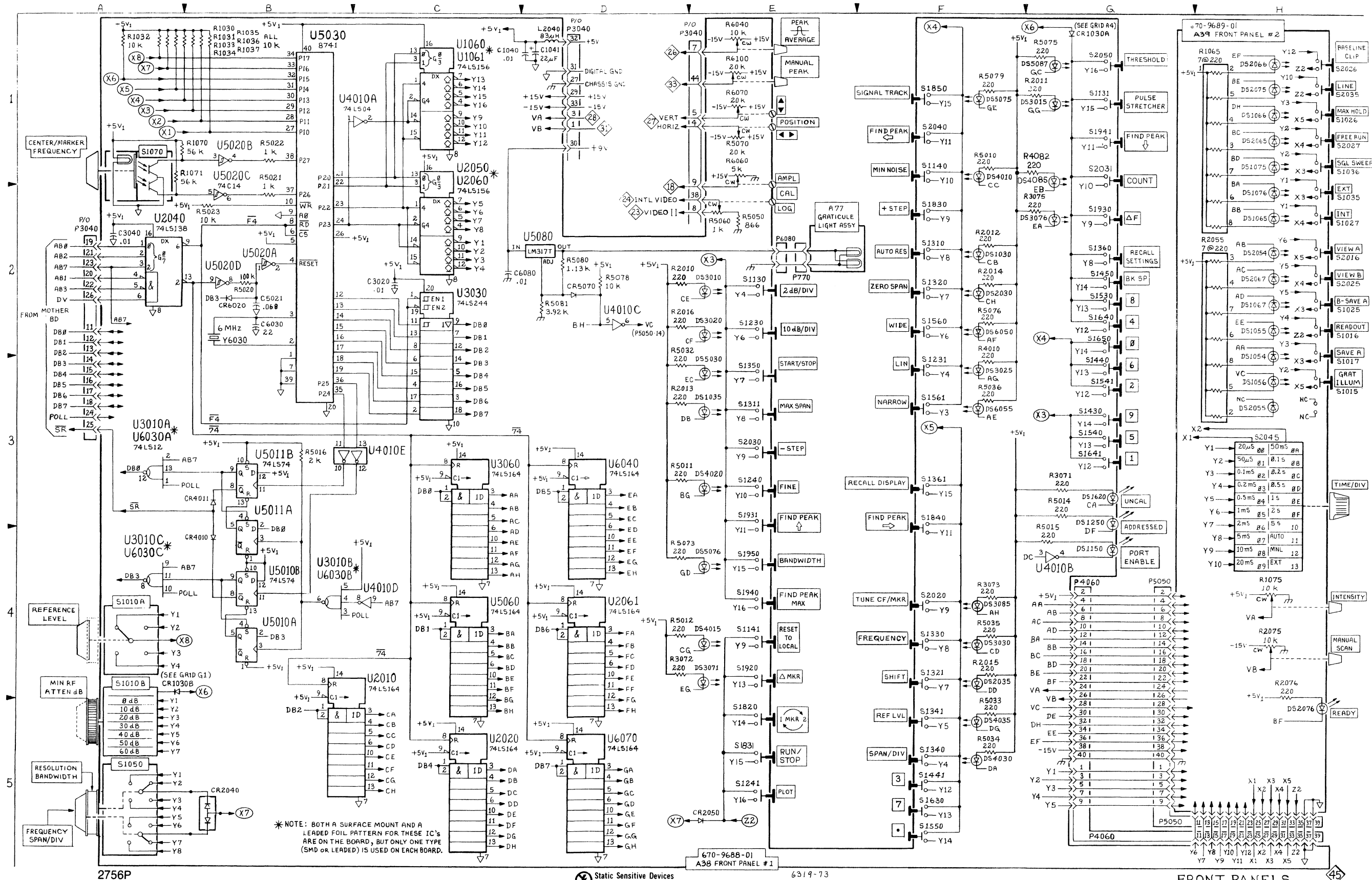


ASSEMBLY A38A1

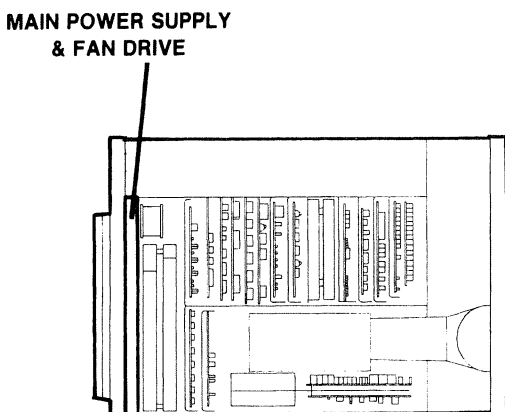
CIRCUIT NUMBER	BOARD LOCATION	SCHEM LOCATION	CIRCUIT NUMBER	BOARD LOCATION	SCHEM LOCATION	CIRCUIT NUMBER	BOARD LOCATION	SCHEM LOCATION	CIRCUIT NUMBER	BOARD LOCATION	SCHEM LOCATION
C1040	D1	D1	R1030	C1	B1	S1010	A2	A4	U1060	E1	C1
C1041	D1	D1	R1031	C1	A1	S1050	E2	A5	U1061	F1	C1
C3020	B3	C2	R1032	C1	B1	S1070	G2	A1	U2010	A2	C5
C3040	D3	A2	R1033	C1	B1	S1130	A3	E2	U2020	B2	C5
C5021	B6	B2	R1034	C2	B1	S1131	A3	G1	U2040	D3	A2
C6030	C6	B2	R1035	C2	B1	S1140	A4	F1	U2050	E3	C2
C6080	H6	C2	R1036	C2	B1	S1141	A4	E4	U3010	B3	A3
			R1037	C2	B1	S1230	B3	E2	U3030	C3	C2
CR1030	C1	G1	R1070	F1	A1	S1231	B3	F3	U3060	F3	C3
CR2040	E2	A5	R1071	F1	A1	S1240	B4	E3	U4010	B4	C1
CR4010	A4	B4	R2010	B3	D2	S1241	B4	E5	U5010	B5	B4
CR4010	B4	B4	R2011	B3	G1	S1310	C1	F2	U5011	B5	B4
CR4011	B4	B3	R2012	B3	D3	S1311	C1	E3	U5020	B5	B2
CR5070	G5	D2	R2014	B3	F2	S1320	C2	F2	U5030	C5	B1
			R2015	B3	F4	S1321	C3	F4	U5060	F5	C4
DS1030	C1	F2	R2016	B3	D2	S1330	C3	F4	U5080	H5	D2
DS1035	C1	E3	R3071	G3	G1	S1340	C4	F4	U6030	C6	A3
DS1150	A5	G4	R3072	G3	E4	S1341	C4	F4	U6040	D6	D3
DS1250	B5	G3	R3073	G3	F4	S1350	C5	E3			
DS1620	E3	G3	R3075	G3	G2	S1360	C6	G2			
DS2030	C2	F2	R4010	A4	F3	S1430	D3	G3			
DS2035	C2	F4	R4082	G2	F3	S1440	D4	G3			
DS3010	A3	E2	R5010	A5	F1	S1441	D4	F5			
DS3015	A3	G1	R5011	A5	E3	S1450	D5	G2			
DS3020	B3	E2	R5012	A5	E4	S1530	E3	G2			
DS3025	B3	F3	R5014	A5	G3	S1540	E4	G3			
DS3030	C3	F4	R5015	A5	G3	S1541	E4	G3			
DS3071	G3	E4	R5016	A5	B3	S1550	E5	F5			
DS3076	G3	G2	R5020	B5	B2	S1560	E6	F2			
DS3085	H3	F4	R5021	B5	B2	S1561	E6	F3			
DS4010	A4	F1	R5022	B5	B1	S1630	E3	F5			
DS4015	A4	E4	R5023	B6	B2	S1640	E4	G2			
DS4020	B4	E3	R5032	C5	E3	S1641	E4	G1			
DS4035	C4	F4	R5033	C5	F4	S1650	E5	G3			
DS4085	G2	F3	R5034	C5	F5	S1820	F3	E5			
DS5030	C5	E3	R5035	D5	F4	S1830	F3	F2			
DS5075	F5	F1	R5036	D5	F3	S1831	E5	F3			
DS5076	G5	E4	R5050	E5	E2	S1840	F4	F4			
DS5087	H5	G1	R5060	E6	E2	S1850	F5	F1			
DS6050	E6	F2	R5070	F6	E1	S1920	G3	E4			
DS6055	E6	F3	R5073	G5	E4	S1930	G3	G2			
DS6110	L6	F3	R5075	G5	G1	S1931	G4	E4			
J3040	D3	D1	R5076	G5	F3	S1940	G4	E4			
J4060	F4	G4	R5077	G5	F4	S1941	G5	G1			
J6080	H6	E2	R5080	G5	D2	S1950	G5	E4			
			R5081	G5	D2	S2020	H3	F4			
			R6040	D6	E1	S2030	D3	E3			
			R6060	E6	E2	S2040	H4	F1			
			R6070	F6	E1	S2050	H5	G1			
			R6072	G5	D2	S2061	L6	F3			
			R6100	K6	E1						

ASSEMBLY A38A2

CIRCUIT NUMBER	BOARD LOCATION	SCHEM LOCATION	CIRCUIT NUMBER	BOARD LOCATION	SCHEM LOCATION	CIRCUIT NUMBER	BOARD LOCATION	SCHEM LOCATION
DS1054	M2	H3	P1075	L5	G4	S1035	M4	H2
DS1055	M1	H3				S1036	M4	H2
DS1056	M1	H3	R1065	L3	H1	S2016	M2	H2
DS1065	M3	H2	R1075	M5	H4	S2025	M2	H2
DS1066	M3	H2	R2055	M2	H2	S2026	M3	H1
DS1067	M2	H3	R2075	M5	H4	S2027	M3	H2
DS1075	M4	H2	R2076	M4	H5	S2035	M4	H1
DS1076	M4	H2				S2045	M5	H4
DS2054	M2	H2	S1015	M1	H3			
DS2060	M3	H1	S1016	M2	H3			
DS2065	M3	H2	S1017	M2	H3			
DS2067	M2	H2	S1025	M2	H3			
DS2075	M4	H1	S1026	M3	H2			
DS2076	M4	H5	S1027	M3	H2			





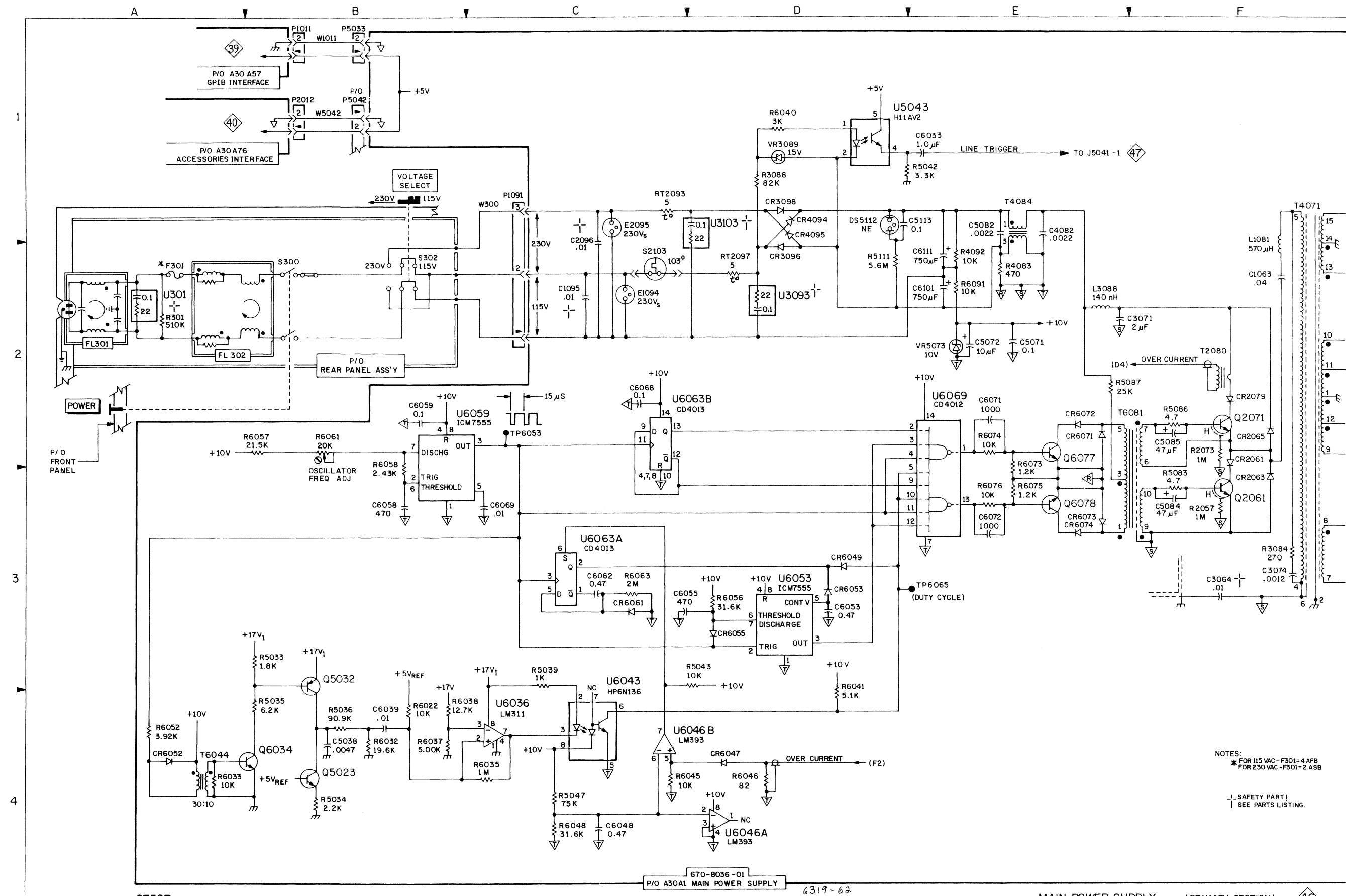


46

ASSEMBLY A30A1

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	
C1063	F2	E1	D55112	D1	L5	R6041	D3	D6	
C1095	C2	J1				R6045	C4	D6	
C2096	C1	J2		E1094	C2	J1	R6046	D4	D6
C3064	F3	E3	E2095	C1	J2		R6048	C4	D6
C3071	F2	F3					R6052	A4	D6
C3074	F3	F3	J5041	E1	B4		R6056	D3	D6
C4082	E1	G4					R6057	B2	E6
C5038	B4	B5	L1081	F1	G1		R6058	B2	E6
C5071	E2	G5	L3088	E2	H3		R6061	B2	E6
C5072	E2	F5					R6063	C3	E6
C5082	E1	H5	P1091	C1	H1		R6073	E2	F5
C5084	F3	G5	P5033	B1	B5		R6074	E2	F6
C5085	F2	G5	P5042	B1	C5		R6075	E3	F6
C5113	E1	C5					R6076	E3	F6
C6033	E1	C6	Q2061	F3	E2		R6091	E2	H6
C6039	B4	C2	Q2071	F2	F2				
C6048	C4	D6	Q5023	B4	B5	RT2093	C1	H2	
C6053	D3	D6	Q5032	B3	B5	RT2097	D2	H2	
C6055	C3	D6	Q6034	B4	C6				
C6058	B3	E6	Q6077	E2	F6			J2	
C6059	B2	E6	Q6078	E3	F6	S2103	C2		
C6062	C3	E6							
C6068	C2	F6	R2057	F3	E2	T2080	F2	G2	
C6069	C3	E6	R2073	F2	G2	T4071	F1	F4	
C6071	E2	F6	R3084	F3	G3	T4084	E1	H4	
C6072	E3	F6	R3088	D1	H3	T6044	A4	C6	
C6101	E2	J6	R4083	E2	G4	T6081	F2	G6	
C6111	E2	L6	R4092	E2	H4				
			R5033	B3	C5	TP6053	C2	F6	
						TP6065	E3	F6	
CR2061	F2	F2	R5034	B4	B5				
CR2063	F3	F2	R5035	B4	C5	U3093	D2	J3	
CR2065	F2	F2	R5036	B4	B5	U3103	D1	J4	
CR2079	F2	G2	R5039	C3	C5	U5043	E1	C5	
CR3096	D2	J3	R5042	E1	D5	U6036	C4	B6	
CR3098	D1	J3	R5043	D3	D6	U6043	C3	C6	
CR4094	D1	J4	R5047	C4	D5	U6046A	D4	C6	
CR4095	D1	J4	R5083	F2	G5	U6046B	C4	C6	
CR6047	D4	D6	R5086	F2	H5	U6053	D3	D6	
CR6049	D3	D5	R5087	E2	H6	U6059	C2	E6	
CR6052	A4	D6	R5111	D2	L5	U6063A	C3	E6	
CR6053	D3	D6	R6022	B4	B6	U6063B	C2	E6	
CR6055	D3	D6	R6032	B4	B6	U6069	E2	F6	
CR6061	C3	E6	R6033	A4	C5				
CR6071	E2	F6	R6035	C4	B6	VR3089	D1	H3	
CR6072	E2	F6	R6037	B4	B6	VR5073	E2	G6	
CR6073	E3	G6	R6038	B4	C6				
CR6074	E3	G6	R6040	D1	C6				

Partial A30A1 also shown on diagram 47.



NOTES:
* FOR 115 VAC - F301=4 AFB
FOR 230 VAC - F301=2 ASB

— SAFETY PART!
| SEE PARTS LISTING

MAIN POWER SUPPLY (SECONDARY & FAN DRIVE)

47

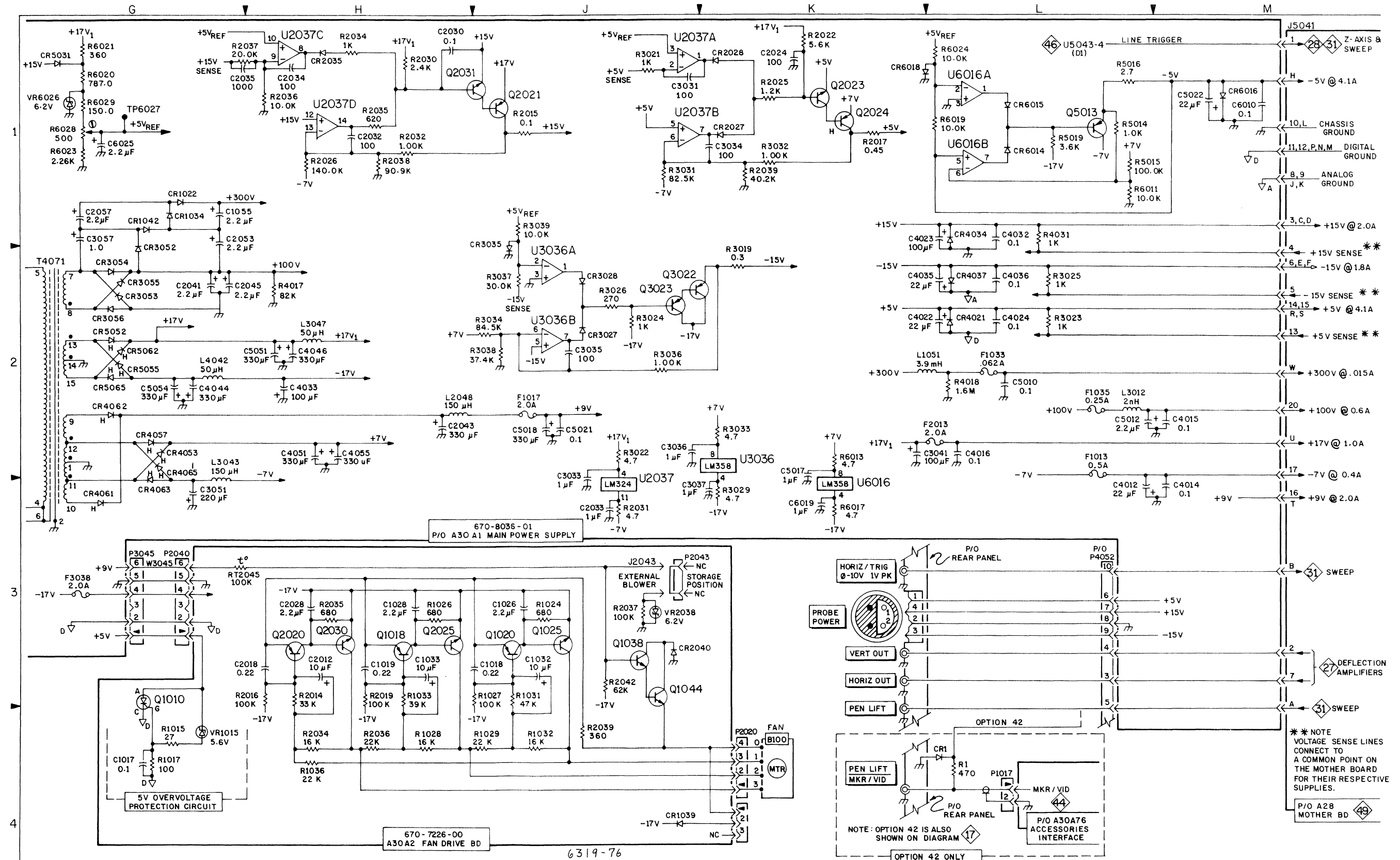
ASSEMBLY A30A1

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1055	G1	D1	C5054	G2	D5	F3038	A3	C3	R3032	K1	C2
C2024	K1	B2	C6010	M1	A6				R3033	K2	B3
C2030	H1	B1	C6019	K3	A6	L1051	K2	D1	R3034	J2	C3
C2032	H1	B2	C6025	G1	B6	L2048	H2	D2	R3036	J2	C3
C2033	J3	C1				L3012	L2	A3	R3037	J2	C3
C2034	H1	C2	CR1022	G1	B1	L3043	G2	D3	R3038	J2	C3
C2035	G1	C2	CR1034	G1	C1	L3047	H2	D3	R3039	J1	C3
C2041	G2	C2	CR1042	G1	C1	L4042	G2	C4	R4017	H2	A4
C2043	H2	C2	CR2027	K1	B2				R4018	L2	A4
C2045	G2	D2	CR2028	K1	B2	P3045	G3	C3	R4031	L1	B4
C2053	G1	D2	CR2035	H1	C2	P5042	L3	C5	R5014	L1	A5
C2057	G1	D2	CR3027	J2	B3				R5015	L1	A5
C3031	J1	B3	CR3028	J2	B3	Q2021	J1	B2	R5016	L1	A5
C3033	J2	C3	CR3035	J1	C2	Q2023	K1	B2	R5019	L1	A6
C3034	K1	C2	CR3052	G2	D2	Q2024	K1	B2	R6011	L1	A6
C3035	J2	B3	CR3053	G2	D3	Q2031	H1	B2	R6013	K2	A6
C3036	J2	B3	CR3054	G2	E3	Q3022	J2	B3	R6017	K3	A6
C3037	J3	C3	CR3055	G2	E3	Q3023	J2	B3	R6019	L1	A6
C3041	K2	C3	CR3056	G2	E3	Q5013	L1	A5	R6020	G1	B6
C3051	G3	D3	CR4021	L2	B4				R6021	G1	B6
C3057	G1	E3	CR4034	L1	C4	R2015	J1	A2	R6023	G1	B6
C4012	L2	A4	CR4037	L2	B4	R2017	K1	A2	R6024	L1	A6
C4014	M2	A4	CR4053	G2	E4	R2022	K1	A2	R6028	G1	B6
C4015	M2	A4	CR4057	G2	E4	R2025	K1	B2	R6029	G1	B6
C4016	L2	A4	CR4061	G3	E3	R2026	H1	B2			
C4022	K2	B4	CR4062	G2	E4	R2030	H1	B2	T4071	G2	F4
C4023	K1	B4	CR4063	G3	E4	R2031	J3	B2			
C4024	L2	B4	CR4065	G2	E4	R2032	H1	C1	TP6027	G1	B6
C4032	L1	B4	CR5031	G1	B5	R2034	H1	C2			
C4033	H2	C4	CR5052	G2	E5	R2035	H1	B2	U2037A	J1	B2
C4035	K2	C4	CR5055	G2	E5	R2036	H1	C2	U2037B	J1	B2
C4036	L2	B4	CR5062	G2	E5	R2037	H1	C2	U2037C	H1	B2
C4044	G2	C4	CR5065	G2	E5	R2038	H1	C2	U2037D	H1	B2
C4046	H2	D4	CR6014	L1	A6	R2039	K1	C2	U2037	J2	B2
C4051	H2	D4	CR6015	L1	A6	R3019	K1	A3	U3036A	J2	B3
C4055	H2	D4	CR6016	M1	A6	R3021	J1	B3	U3036B	J2	B3
C5010	L2	A5	CR6018	K1	A6	R3022	J2	B3	U3036	K2	B3
C5012	L2	A5				R3023	L2	A3	U5043	L1	C5
C5017	K2	A5	F1013	L2	A1	R3024	J2	B3	U6016A	L1	A6
C5018	J2	A5	F1017	J2	A1	R3025	L2	B3	U6016B	L1	A6
C5021	J2	B5	F1033	L2	C1	R3026	J2	B3	U6016	K2	A6
C5022	M1	A5	F1035	L2	C1	R3029	K3	B3			
C5051	H2	D5	F2013	K2	A2	R3031	J1	C3	VR6026	G1	B6

Partial A30A1 also shown on diagram 46.

ASSEMBLY A30A2

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1017	G4	A1	P1037	D4	C1	R1015	G4	A1	R2034	H4	C2
C1018	J3	A1	P2020	K4	B2	R1017	G4	A1	R2035	H3	B2
C1019	H3	A2	P2040	G3	C2	R1024	J3	B1	R2036	H4	C2
C1026	J3	B1	P2043	J3	C2	R1026	H3	C2	R2037	J3	C2
C1028	H3	B1				R1027	J3	B1	R2039	J4	C2
C1032	J3	C1	Q1010	G3	A1	R1028	H4	B1	R2042	J3	D1
C1033	H3	B1	Q1018	H3	A1	R1029	J4	B1			
C2012	H3	A2	Q1020	J3	B1	R1031	J3	C1	RT2045	G3	D1
C2018	G3	A2	Q1025	J3	B1	R1032	J4	C1			
C2028	H3	B2	Q1038	J3	D1	R1033	H3	C1	VR1015	G4	A1
			Q1044	J3	D1	R1036	H4	C1	VR2038	J3	C2
CR1039	J4	C1	Q2020	H3	A2	R2014	H3	A2			
CR2040	J3	D1	Q2025	H3	B2	R2016	G3	A2			
			Q2030	H3	B2	R2019	H3	A2			



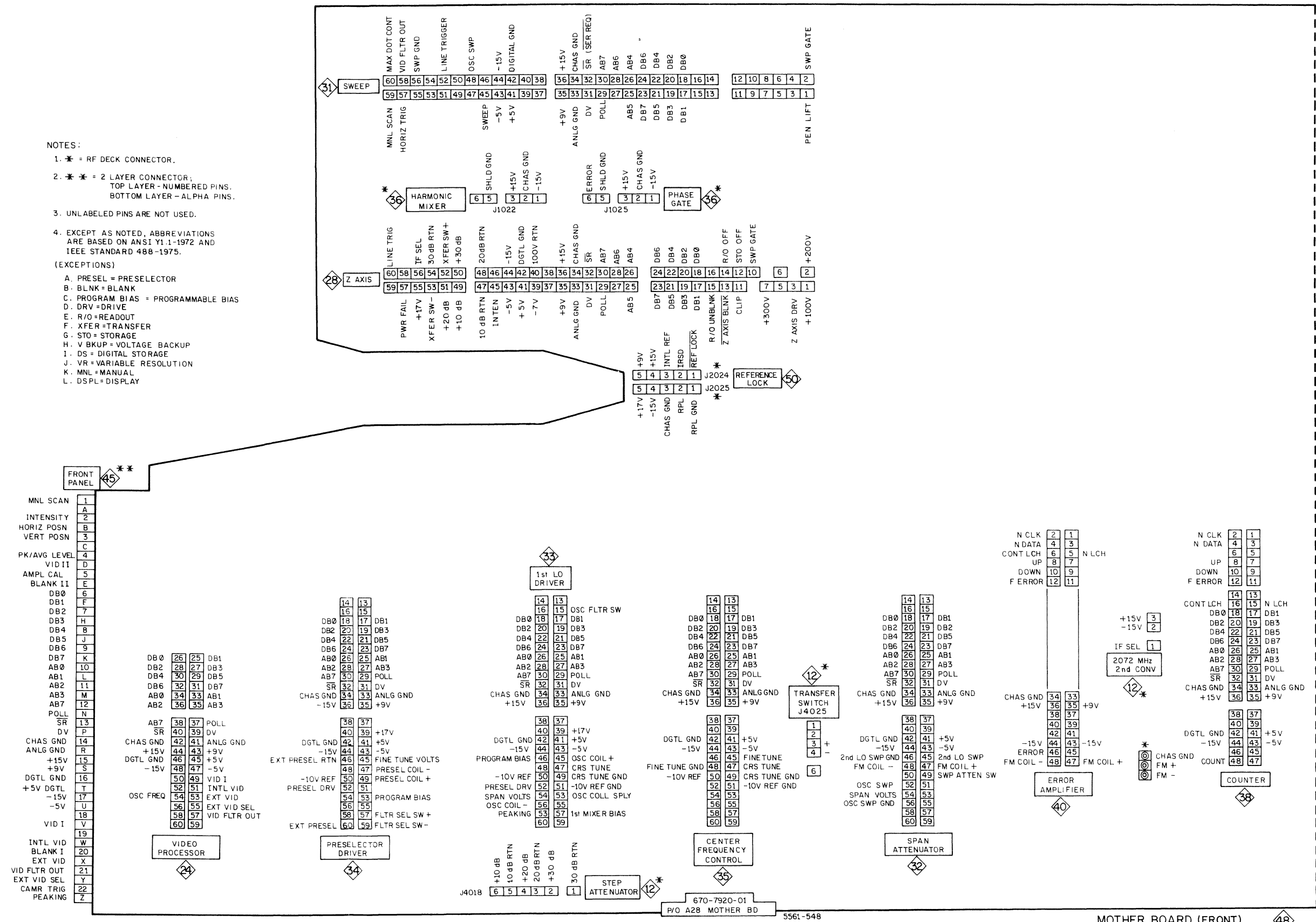
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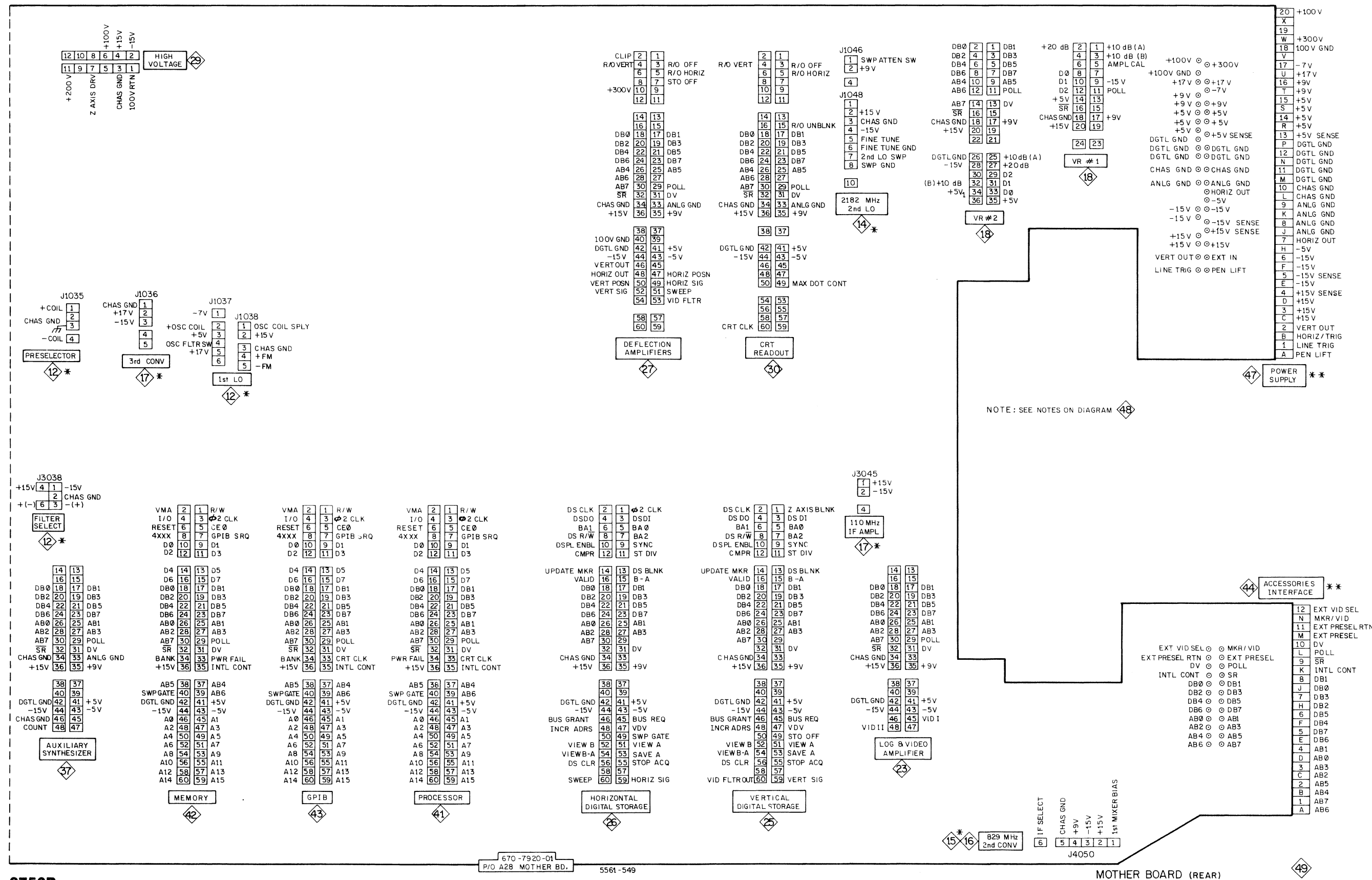
MAIN POWER SUPPLY (SECONDARY SECTION) & FAN DRIVE

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1. * = RF DECK CONNECTOR.
2. ** = 2 LAYER CONNECTOR.
TOP LAYER - NUMBERED PINS.
BOTTOM LAYER - ALPHA PINS.
3. UNLABELED PINS ARE NOT USED.
4. EXCEPT AS NOTED, ABBREVIATIONS
ARE BASED ON ANSI Y1 1-1972 AND
IEEE STANDARD 488-1975.
(EXCEPTIONS)
 - A. PRESEL = PRESELECTOR
 - B. BLNK = BLANK
 - C. PROGRAM BIAS = PROGRAMMABLE BIAS
 - D. DRV = DRIVE
 - E. R/O = READOUT
 - F. XFER = TRANSFER
 - G. STO = STORAGE
 - H. V BKUP = VOLTAGE BACKUP
 - I. DS = DIGITAL STORAGE
 - J. V = VARIABLE RESOLUTION
 - K. MNL = MANUAL
 - L. D SPL = DISPLAY





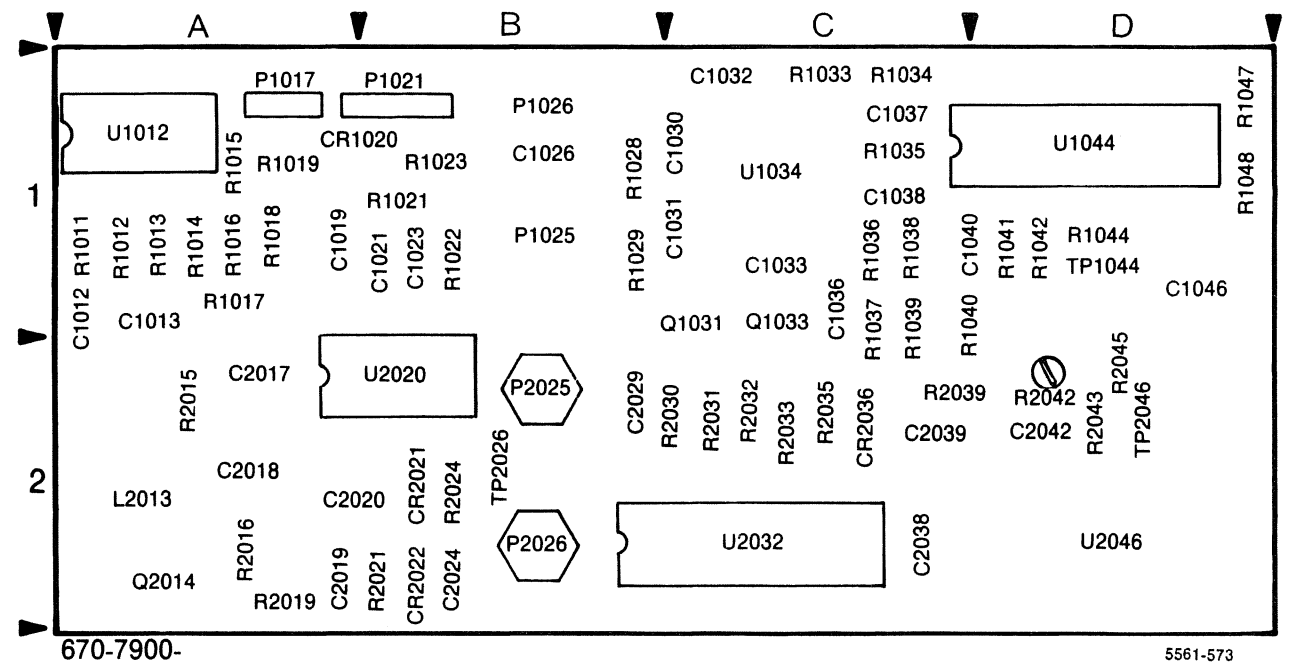
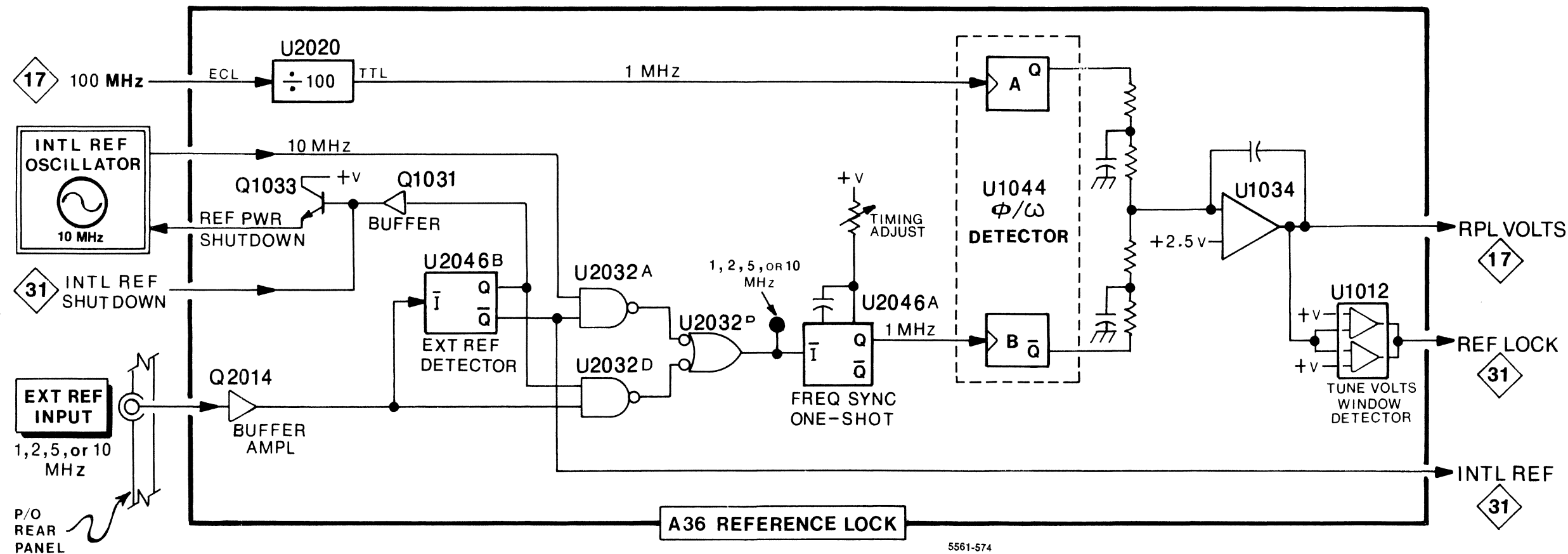
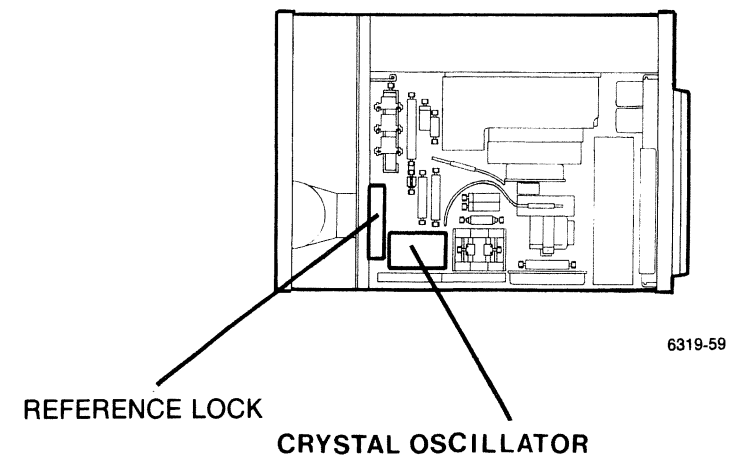


Fig. 10-64. A36A1—Reference Lock circuit board.

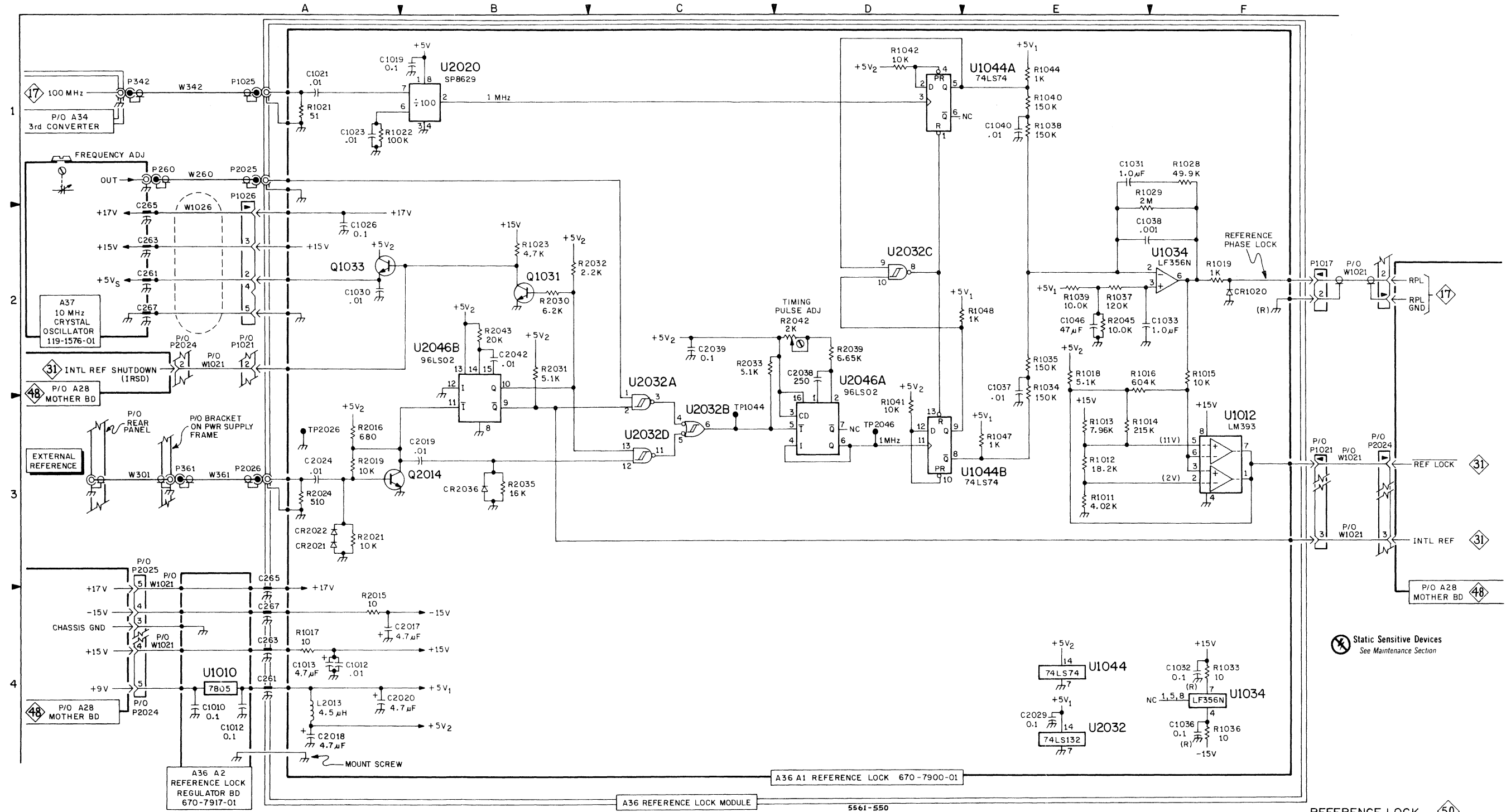


REFERENCE LOCK

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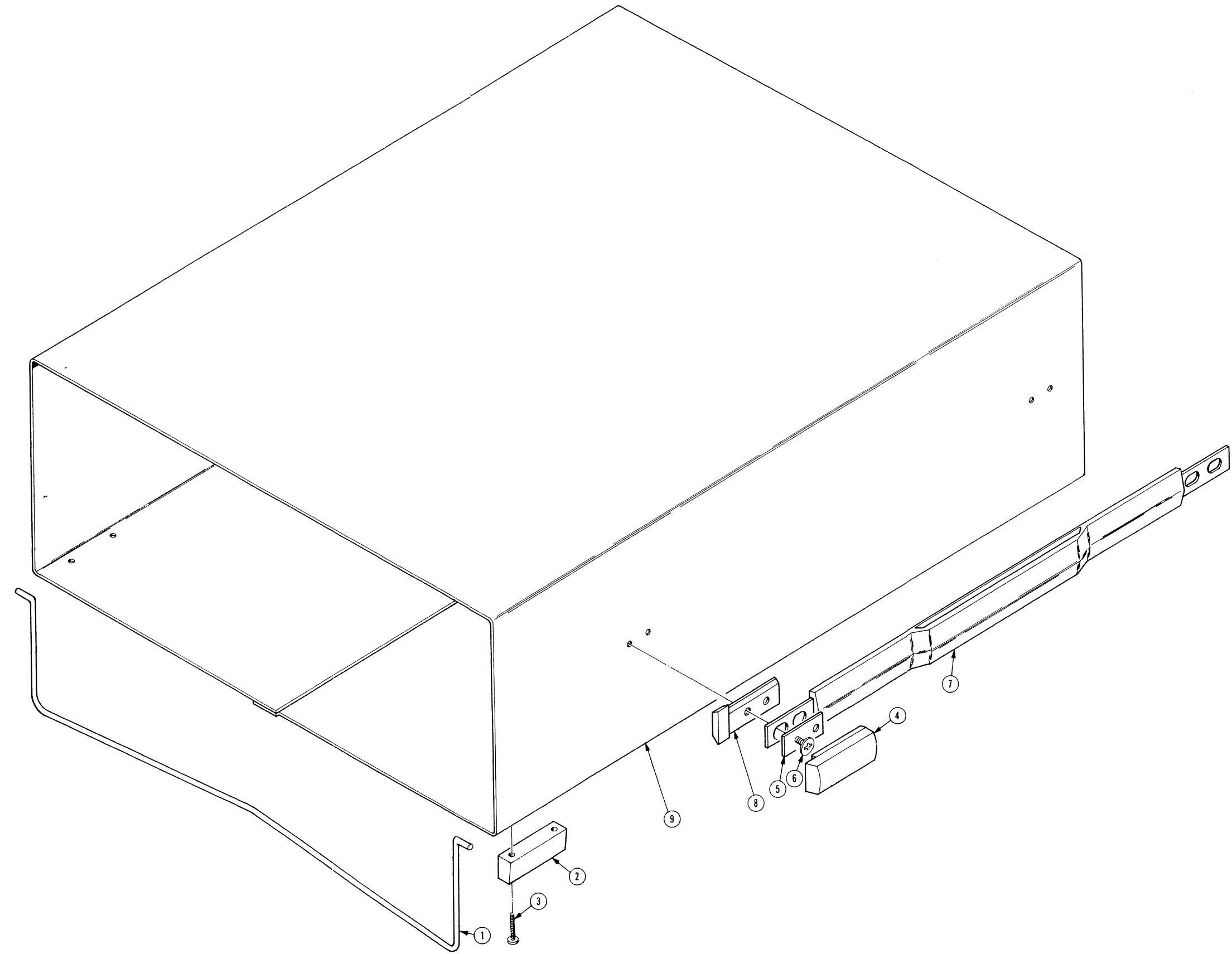
ASSEMBLY A36A1

CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEM LOCATION	BOARD LOCATION
C1012	A4	A1	P1025	A1	B1	R1048	E2	D1
C1013	A4	A1	P1026	A2	B1	R2015	A4	A2
C1019	A1	A1	P2025	A1	B2	R2016	A3	A2
C1021	A1	B1	P2026	B1	B2	R2019	A3	A2
C1023	A1	B1				R2021	A3	A2
C1026	A2	B1	Q1031	B2	C1	R2024	A3	B2
C1030	A2	C1	Q1033	A2	C1	R2030	B2	C2
C1031	E1	C1	Q2014	B3	A2	R2031	B2	C2
C1032	F4	C1				R2032	B2	C2
C1033	F2	C1	R1011	E3	A1	R2033	C2	C2
C1036	F4	C1	R1012	E3	A1	R2035	B3	C2
C1037	E2	C1	R1013	E3	A1	R2039	D2	D2
C1038	E2	C1	R1014	E3	A1	R2042	D2	D2
C1040	E1	C1	R1015	F2	A1	R2043	B2	D2
C1046	E2	D1	R1016	E2	A1	R2045	E2	D2
C2017	B4	A2	R1017	A4	A1			
C2018	A4	A2	R1018	E2	A1	TP1044	C3	D1
C2019	B3	A2	R1019	F2	A1	TP2026	B3	B2
C2020	A4	A2	R1021	A1	B1	TP2046	D2	D2
C2024	A3	B2	R1022	A1	B1			
C2029	E4	B2	R1023	B2	B1	U1012	F3	A1
C2038	D2	D2	R1028	F1	B1	U1034	F2	C1
C2039	C2	D2	R1029	E2	B1	U1034	F4	C1
C2042	B2	D2	R1033	F4	C1	U1044A	E1	D1
			R1034	E2	C1	U1044B	E3	D1
CR1020	F2	B1	R1035	E2	C1	U1044	E4	D1
CR2021	A3	B2	R1036	F4	C1	U2020	B1	A2
CR2022	A3	B2	R1037	E2	C1	U2032A	C2	C2
CR2036	B3	C2	R1038	E1	C1	U2032B	C3	C2
			R1039	E2	C1	U2032C	D2	C2
			R1040	E1	C1	U2032D	C3	C2
			R1041	D2	D1	U2032	E4	C2
P1017	F2	A1	R1042	D1	D1	U2046A	D2	D2
P1021	A2	B1	R1044	E1	D1	U2046B	B2	D2
P1021	F3	B1	R1047	E3	D1			



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REFERENCE LOCK 50



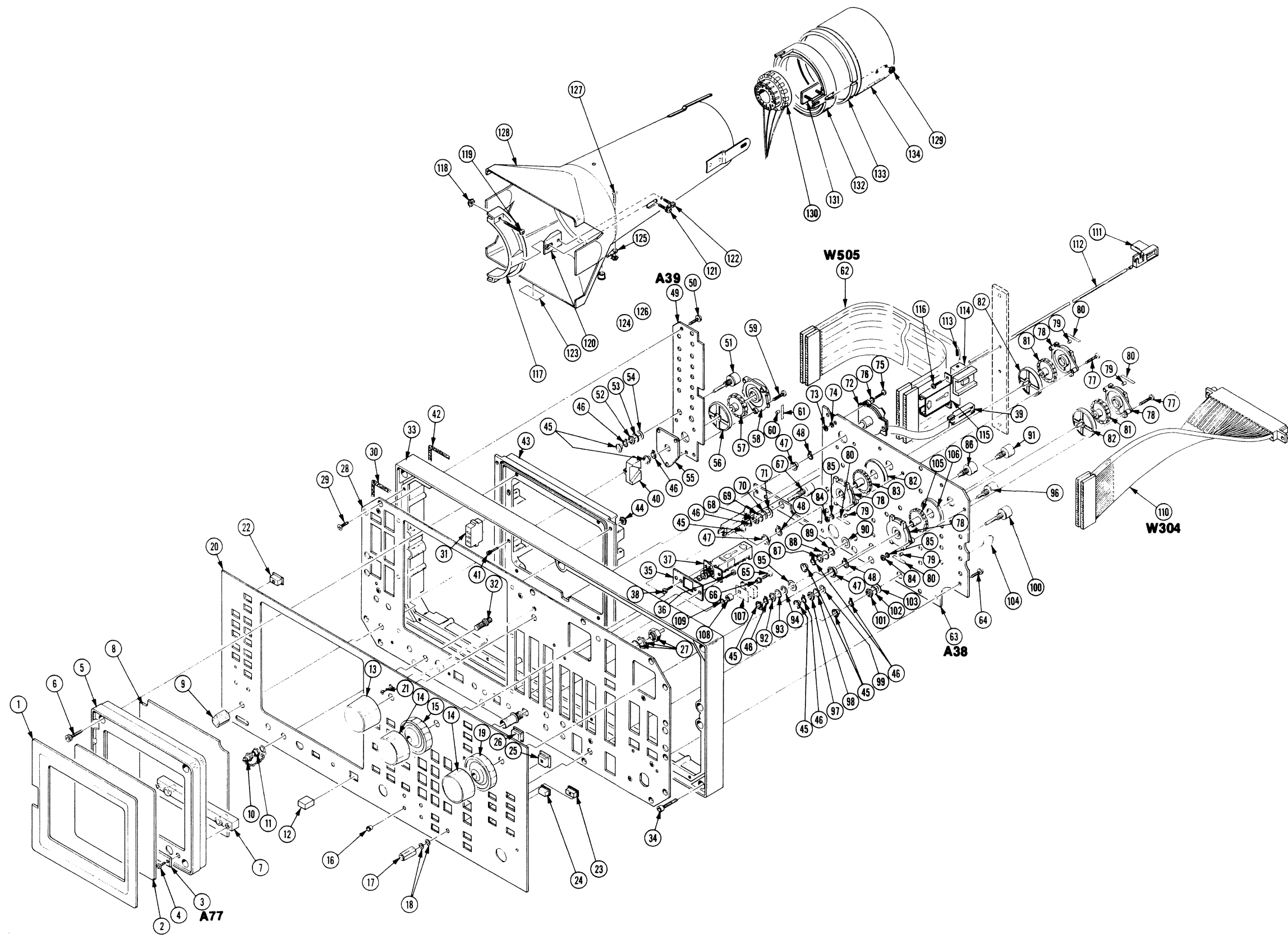
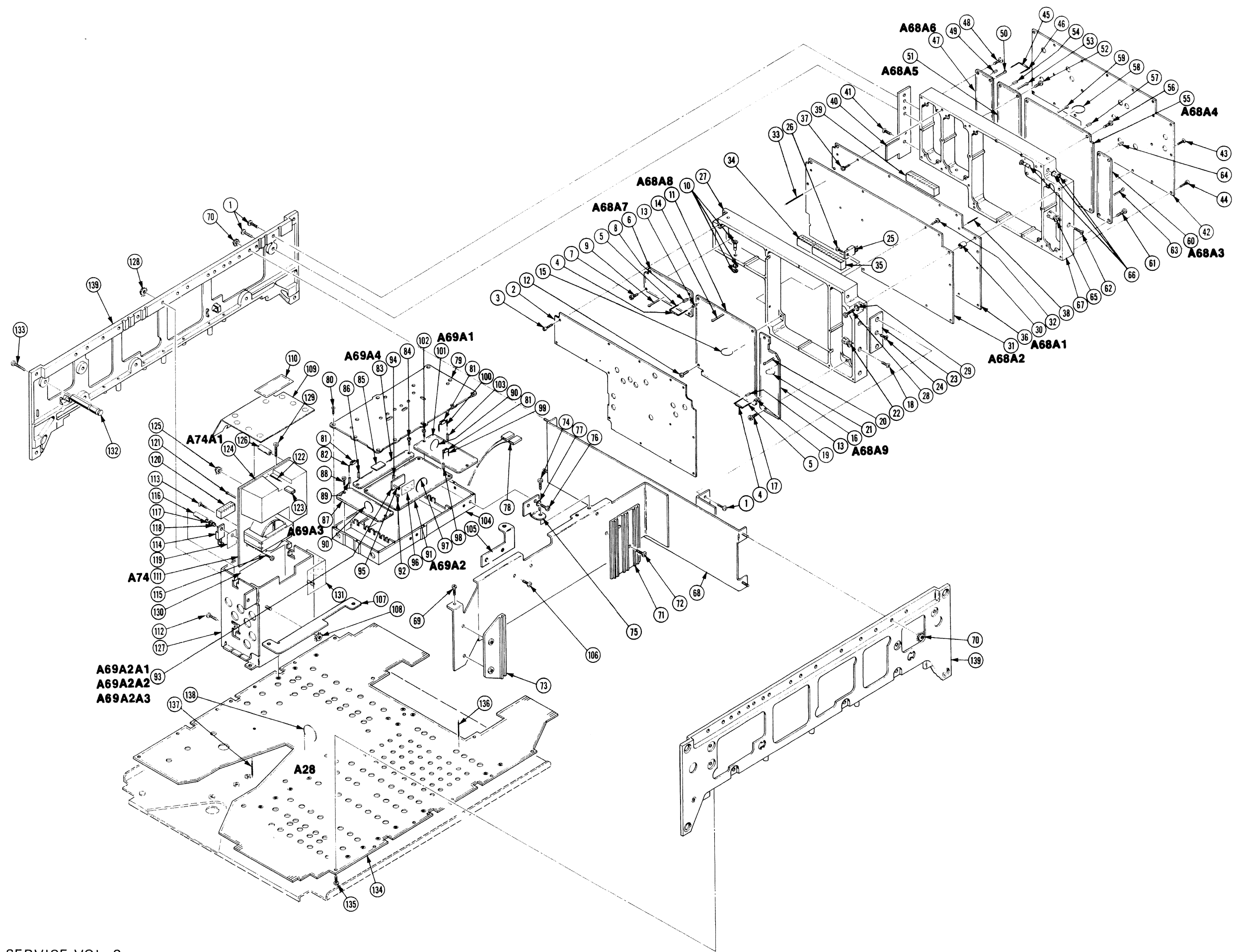


FIG. 4 HV & VR MODULE



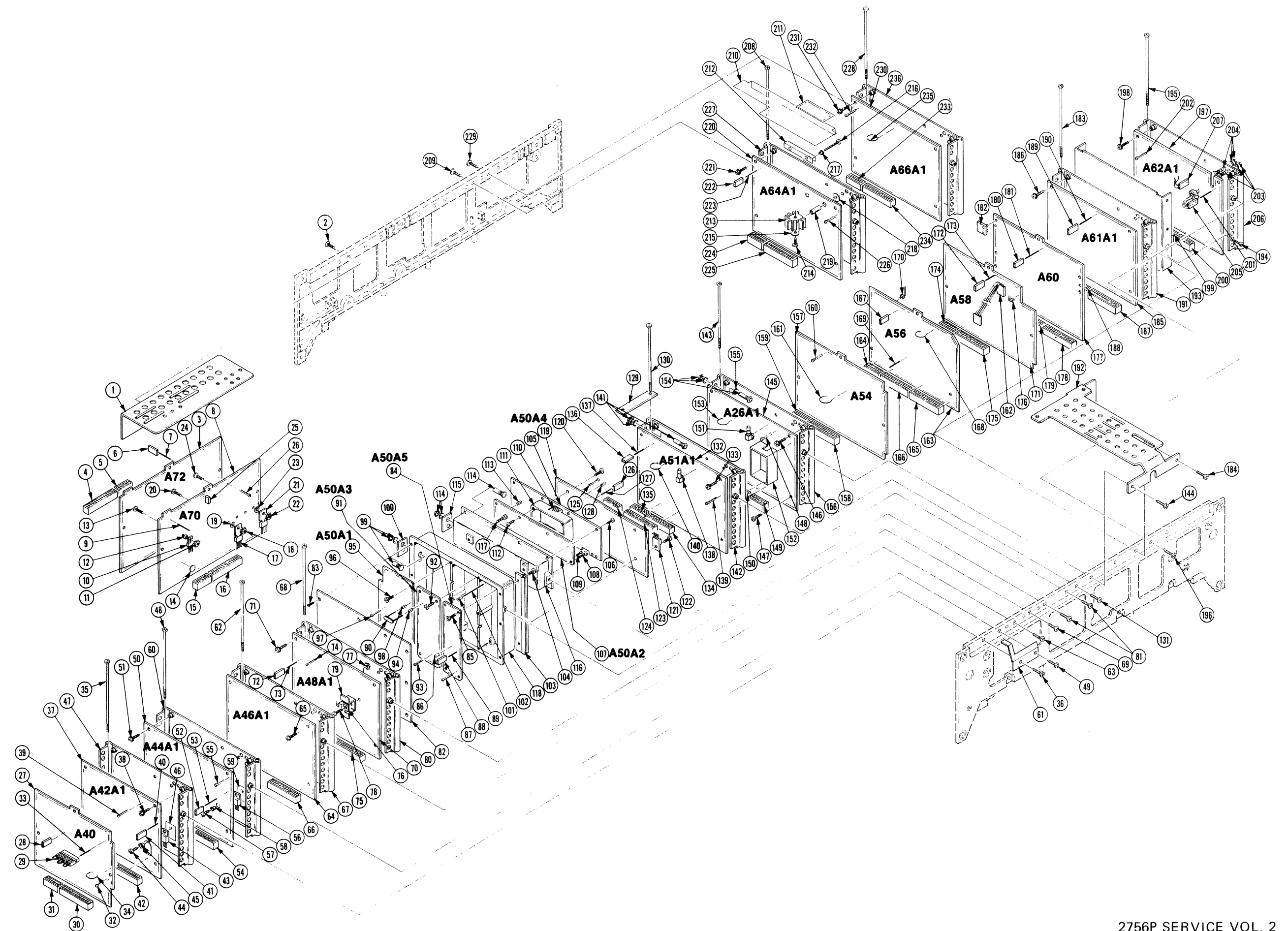
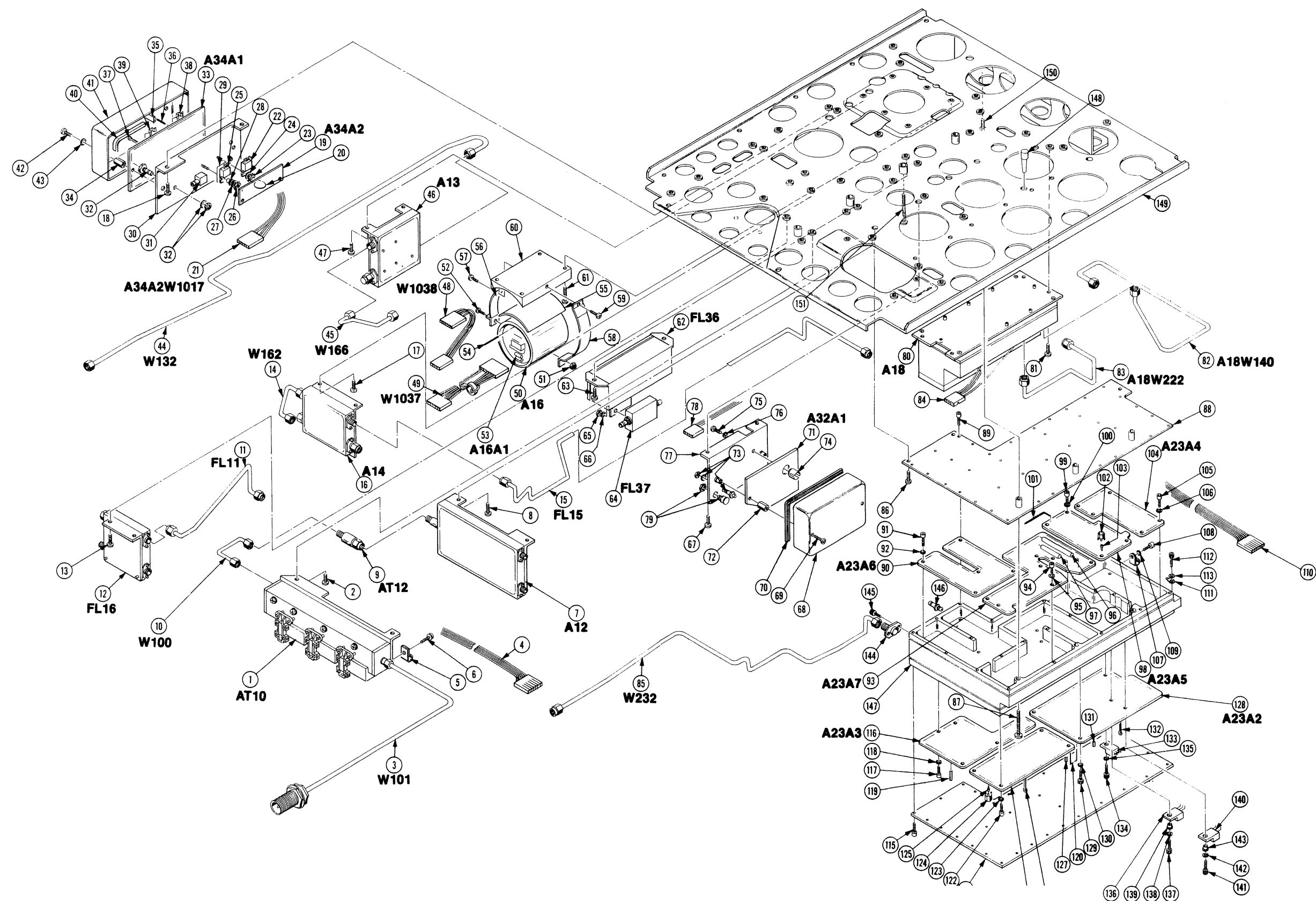


FIG. 6 RF DECK #1



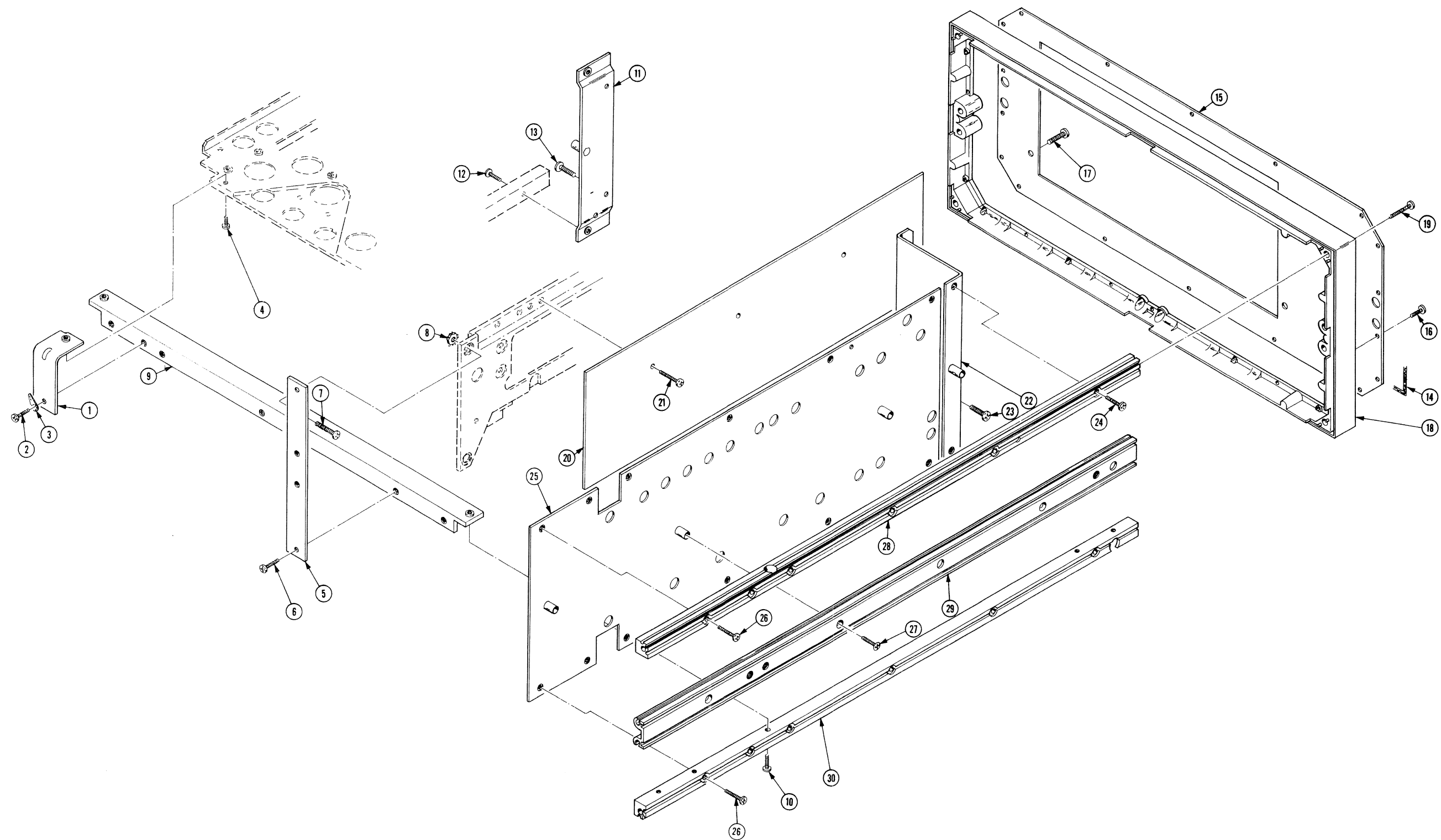
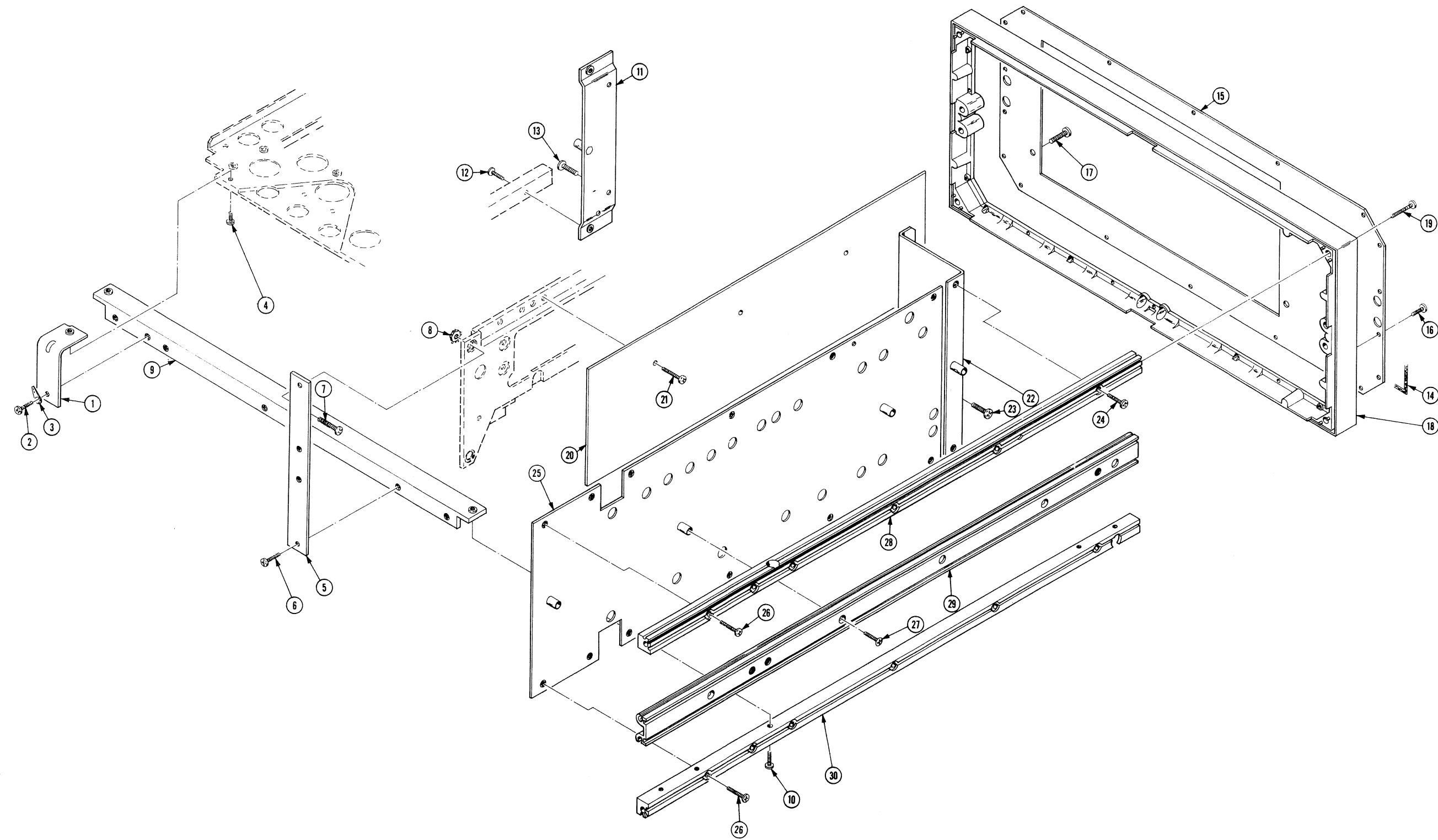
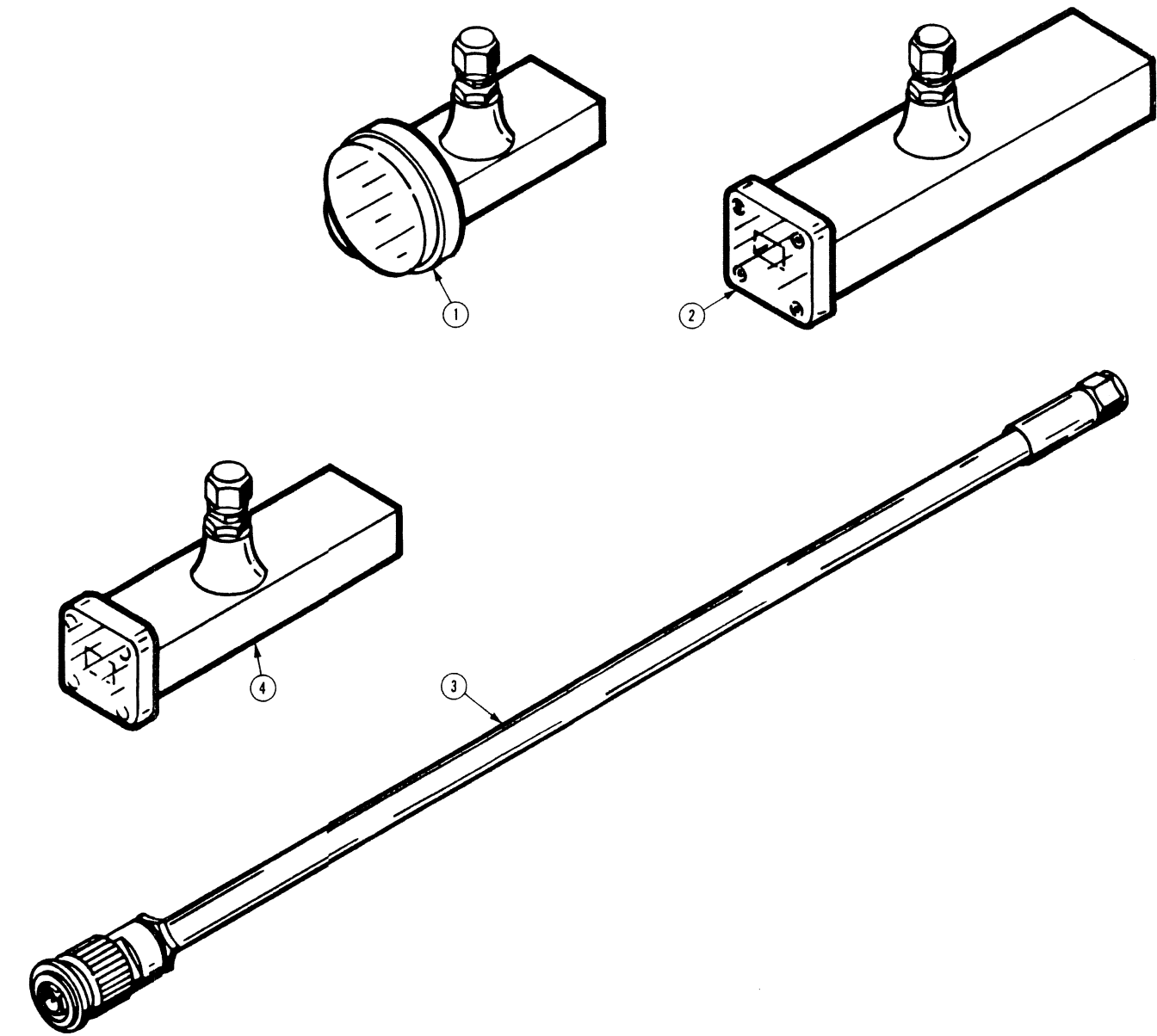
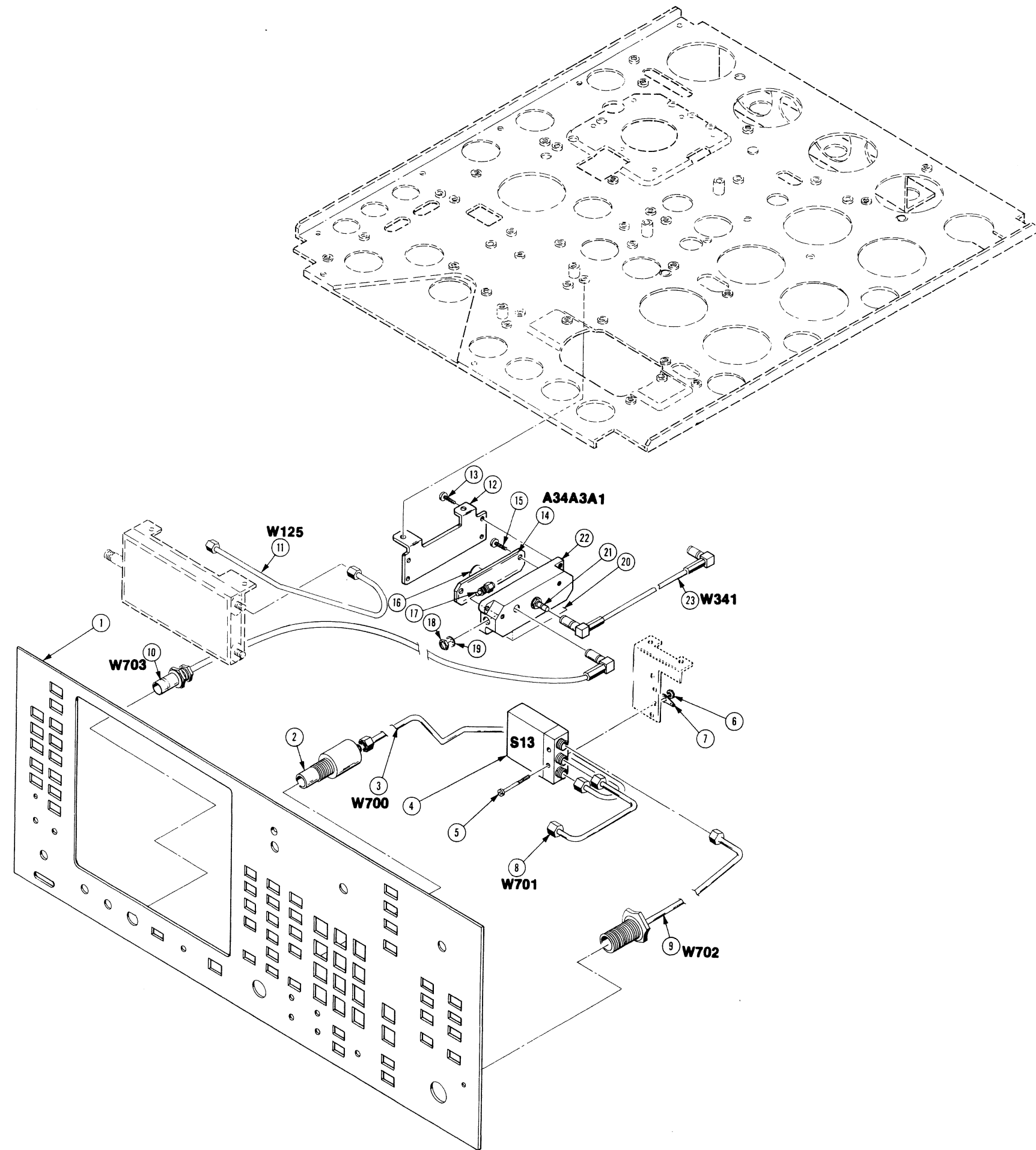


FIG. 8 FRAME







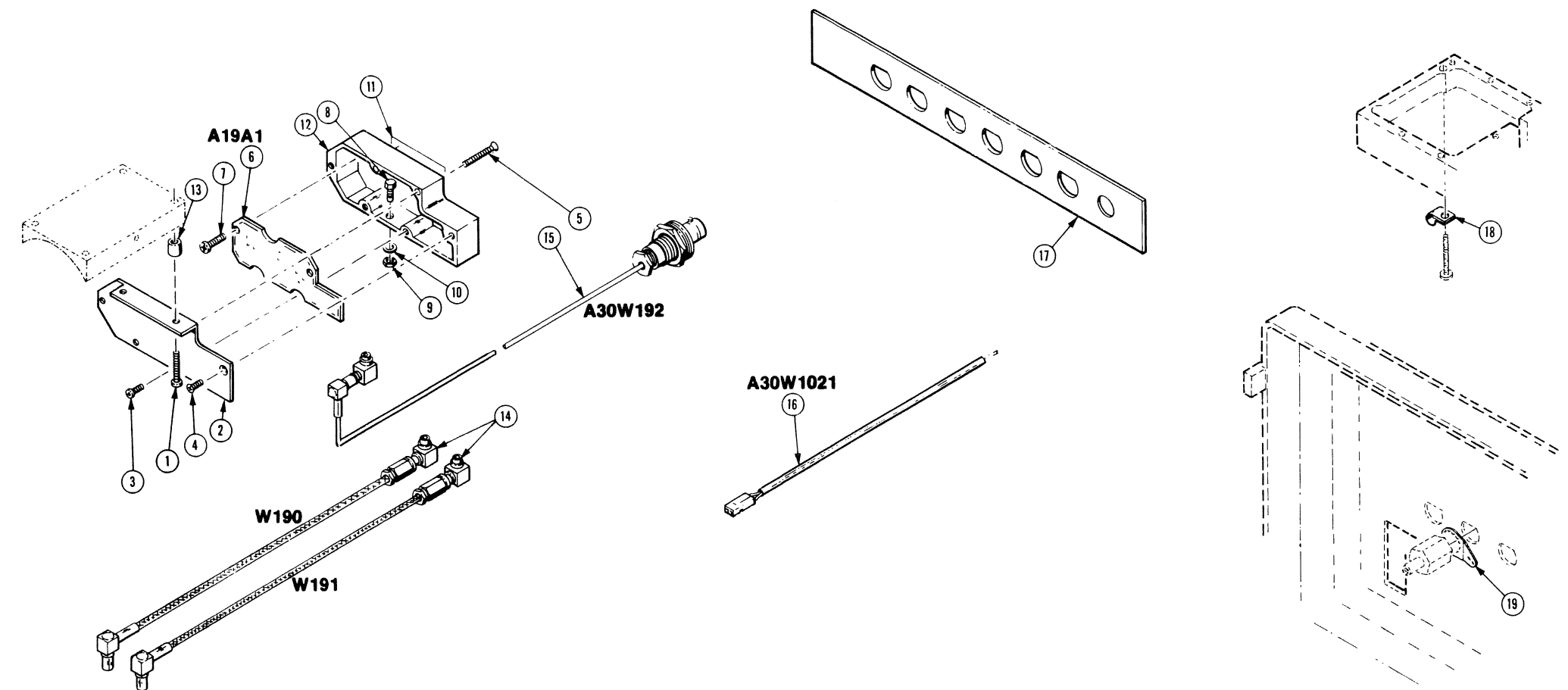
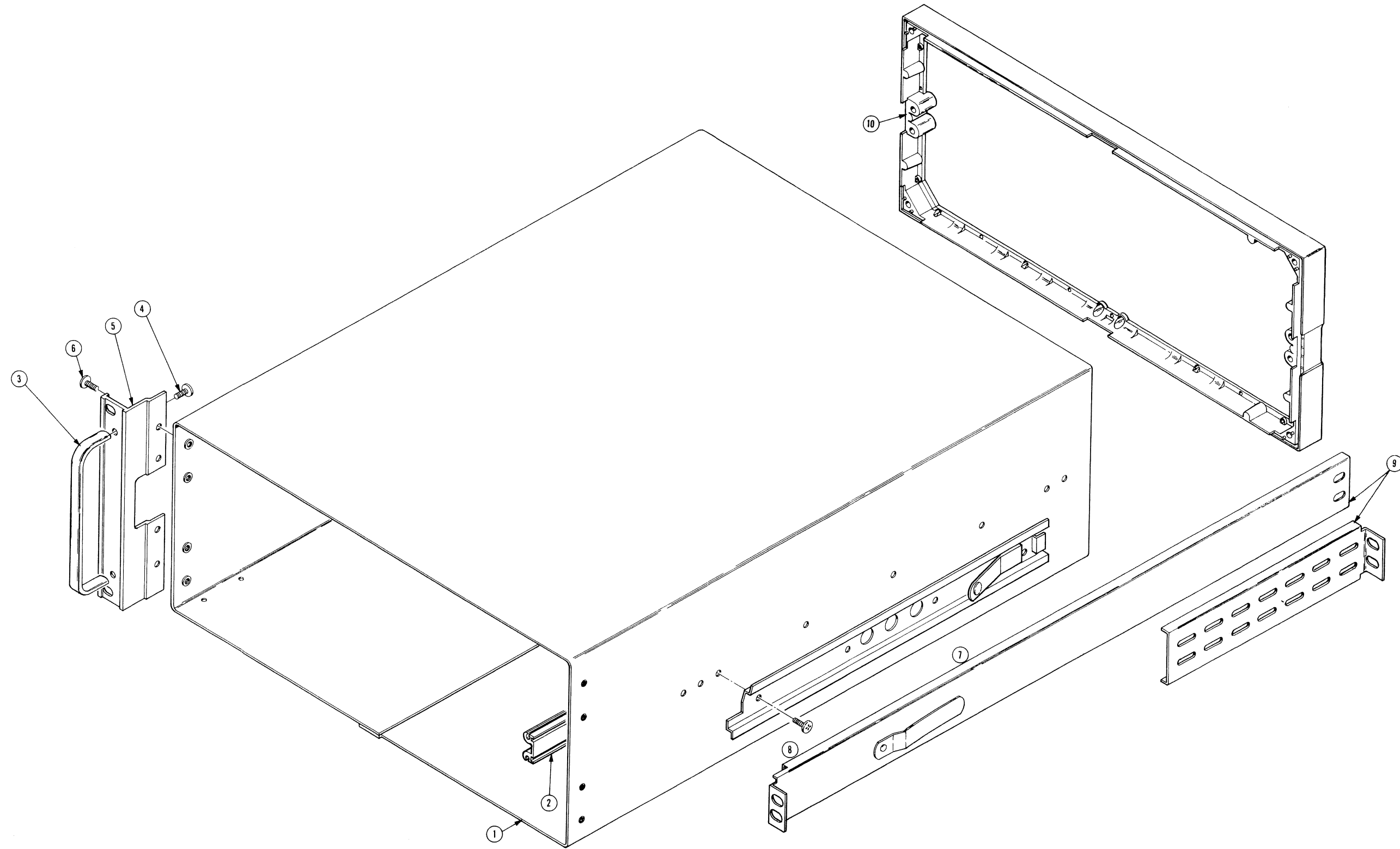


FIG. 12 OPTION 30



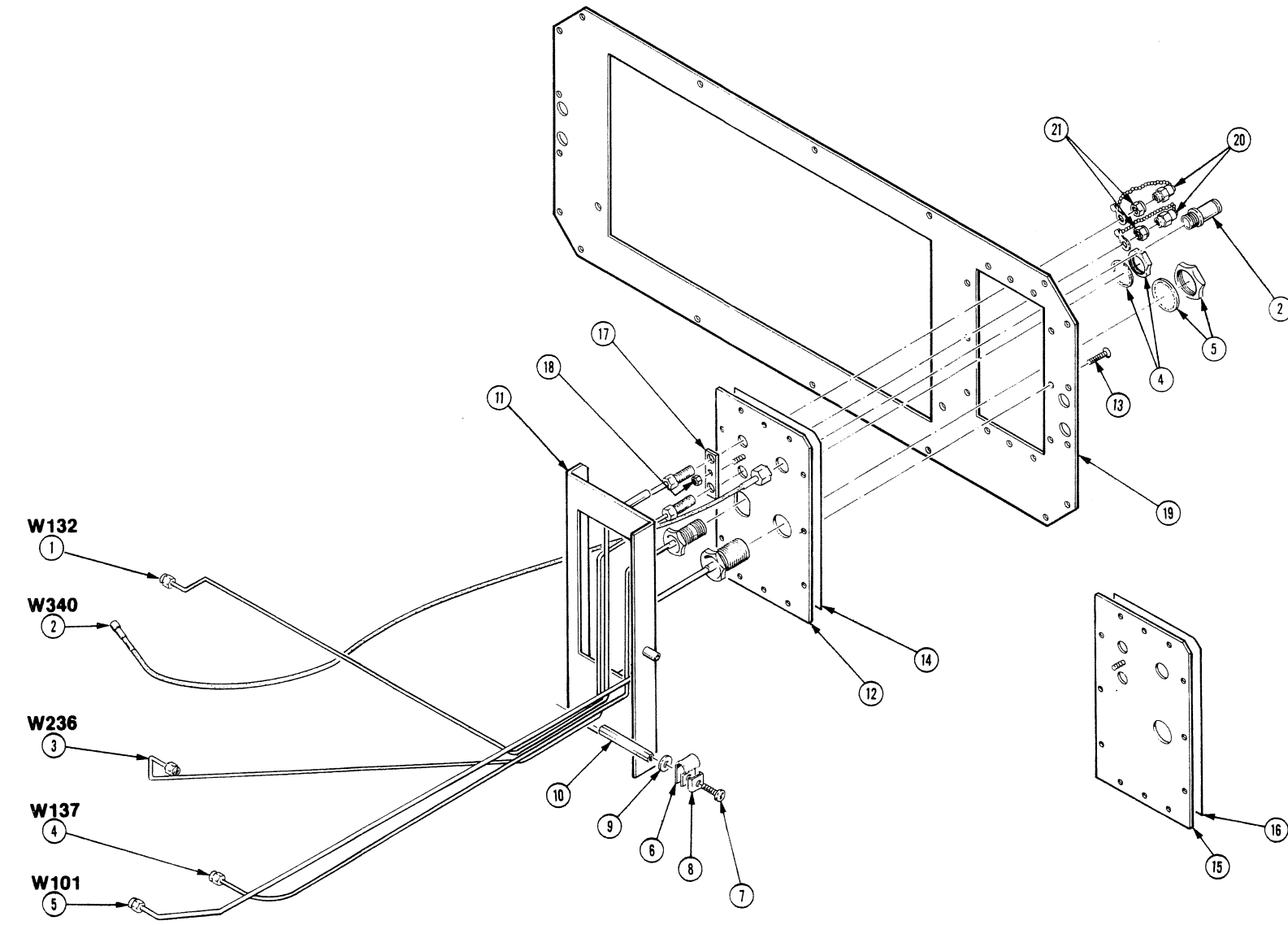


FIG. 13 OPTION 31

FIG. 14 ACCESSORIES

